

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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No. 13] NEW DELHI, SATURDAY, MARCH 28, 1992 (CHAITRA 8, 1914)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 28th March 1992

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1—517GI/91

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पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 14 मार्च 1992

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,  
तीसरा तल, लोअर परले (पश्चिम),  
बम्बई-400013 ।

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य  
क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा  
दिव एवं दादरा और नगर हवेली ।

तार पता—“पेटेंटॉफिस”

पेटेंट कार्यालय शाखा,  
एक सं. 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,  
पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों  
एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटॉफिक”

पेटेंट कार्यालय शाखा,  
61, बालाबाहू रोड,  
मद्रास-600002 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य  
क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्कादिव  
मिनिकाय तथा अमिनिदिव द्वीप

तार पता—“पेटेंटॉफिस—

पेटेंट कार्यालय (प्रधान कार्यालय)  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय,  
भवन, 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700020 ।

भारत का शेष क्षेत्र

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है ।

## CORRIGENDUM

In the Gazette of India, Part III, Section 2, dated 11th August 1990 page 896 read the complete accepted specification No. 166962 (375/Del/86) filed on 25th April 1986 instead of 25th December 1986.

## CORRIGENDUM

In the Gazette of India Part III, Section 2 dated the 4th January 1992, Page 20, Column-2, under heading “Cessation” of Patents.

Delete Patent No. 154242.

## THE PATENT OFFICE

Calcutta, the 28th March 1992

APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-20

The dates shown in the crescent brackets are the dates  
claimed Under Section 135. of the Patents Act 1970

The 17th February 1992

106 Cal/92. Jean Frederic Melchior, Device for injecting  
liquid such as fuel into at least one pressurized  
chamber of a periodic operation machine such as  
internal combustion engine and engine of this  
type equipped with this device.

107 Cal/92. Indian Jute Industries' Research Association,  
roll-winding machine for higher productivity.

The 18th February 1992

108 Cal/92. Ethicon, Inc., Improved Safety Trocar. (con-  
vention date 6th Jul 1988, No. 8816033.8 Great  
Britain). (Divided out of No. 522/Cal/89, dated  
4th Jul 1989).

109 Cal/92. Ethicon, Inc., Improved Safety Trocar. (con-  
vention date 6th Jul 1988, No. 8816033.8 Great  
Britain). (Divided out of No. 522/Cal/89, dated  
4th Jul 1989).

110 Cal/92. Chicopee. Textile—Like Apertured Plastic Films.

111 Cal/92. Leonard Jason Rautenberg, Milton Montague  
Gilbert, James Henry Wyner and Daniel Mark  
Wyner, an elastic, laminated, water-proof, mois-  
ture, permeable fabric. (Divided out of No.  
379/Cal/88, dated 11th May 1988).

The 19th February 1992

112 Cal/92. Hitachi Construction Machinery Co. Ltd., a  
prime mover rotational speed control system.

113 Cal/92. Siemens Aktiengesellschaft, pipe with ribs on  
its inner surface forming a multiple thread and  
steam generator for using the pipe.

114 Cal/92. Franz Plasser Bahnbaumaschinen-Industriesel-  
lschaft M.B.H., transport wagon.

115 Cal/92. Elmwood Packaging Machinery Limited,  
packaging apparatus and method. (convention  
dated 21st February 1991, No. 9103639.2 Great  
Britain) & 22nd February 1991 No. 9103790.3  
Great Britain).

The 20th February 1992

116/Cal/92. Trutzschler GMBH & Co. Kg., the device in a carding machine with moving cover made of cover bars provided with garniture.

117/Cal/92. Hygeia Sciences, Inc., Process of obtaining a stable collected mass of a solid phase metal containing composite. (Divided out of No. 681/Cal/88 dated 10th Aug 1988).

The 20th February 1992

118/Cal/92. Dallaire Industries Ltd., Drainage system and method of draining extruded window frame sills.

The 21st February 1992

119/Cal/92. Devapriya Mukerjee, Hydrogen catalytic burner stove with computerized digital safety controls and safety features.

120/Cal/92. Euroceltique, S.A., Stabilized PVP-I solutions.

121/Cal/92. Euroceltique, S.A., Stabilized controlled release substrate having a coating derived from an aqueous dispersion of hydrophobic polymer.

122/Cal/92. Nissin Shokuhin Kabushiki Kaisha, method for producing brick of fried noodles.

123/Cal/92. Kabushiki Kaisha Hosokawa Yoko, Liquid container.

Alteration of date Under Section 16

170440  
(200/Del/89)  
Ante dated to July 2, 1986.

170470  
(1025/Del/87)  
Ante dated to March 29, 1985.

170478  
(269/Bom/89)  
Ante dated to July 27, 1987.

Alteration of date Under Section 17

170437  
(814/Del/87)  
Post dated to December 6, 1988.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The Written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

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#### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसको निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संबंध में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अंतर-राष्ट्रीय वर्गीकरण के अनुरूप है।”

नीचे सूचीगत विनिर्देशों की सीमित संख्यक मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है।

(अतिरिक्त डाक सर्च)। मुद्रित विनिर्देशों की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियां की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिष्कलन किया जा सकता है।

CLASS: 104J XII (1)

170431

Int. Cl.: C08C 19/10.

A PROCESS FOR ISOMERISING A HALOGENATED BUTYL RUBBER.

Applicant: EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF P.O. BOX 390, FLORHAM PARK, NEW JERSEY 07932, UNITED STATES OF AMERICA.

Inventor: IRWIN JEROME GARDNER, JAMES VINCENT FUSCO, NEIL FREDERICK NEWMAN, WILLIAM MYERS DAVIS RONALD CHARLES KOWALSKI & FRANCIS PAUL BALDWIN.

Application for Patent No. 270/Del/85 filed on 29th March 1985.

Appropriate Office for the Opposition Proceedings (Rule 4, Patent Rule 1972) Patent Office Branch, New Delhi-5.

#### 8 Claims

A process for isomerising a halogenated butyl rubber thereby shifting a substantial fraction of the halogen from an initial secondary allylic configuration to a primary allylic configuration, said process comprises contacting a solution of halogenated butyl rubber in an organic solvent such as herein described with a Friedel-Crafts catalyst at a temperature of 20°C to 150°C for a reaction time of 2 minutes to 3 hours to cause the isomerization.

(Compl. Specn. 26 pages;

Drwgs. 3 sheets)

CLASS: 108B1.

170432

Int. Cl.<sup>4</sup>: C21B 13/08.

AN IMPROVED PROCESS FOR THE PRODUCTION OF DIRECT REDUCED SPONGE IRON IN A ROTARY KILN AND AN APPARATUS FOR MAKING THE SAME.

Applicant: STEEL AUTHORITY OF INDIA LTD. RESEARCH AND DEVELOPMENT CENTRE FOR IRON & STEEL, HAVING ITS REGISTERED OFFICE AT ISPAT BHAWAN, LODI ROAD, NEW DELHI-110 003, A GOVERNMENT OF INDIA ENTERPRISE.

Inventors: KRISHNA KANT PRASAD, AMITAVA BANDOPADHYAY, ASHIM KUMAR ROY, MAHESH PRASAD SRIVASTAVA, PRADIP KUMAR BANDOPADHYAY, BENOY RANJAN CHOWDHURY, CADAMBE RAMACHAR SRINIVASAN AND SAIBAL KANTI GUPTA.

Application for Patent 41/Del/87 filed on 21 January 1987.

Complete Specification left on 14 MAR 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 8 Claims

An improved process for the production of direct reduced sponge iron in a rotary kiln using non-coking coal which process comprises charging predetermined amounts of iron ore, return charge and lime stone or dolomite in a preheating kiln, preheating the mixture to a temperature of about 400°C, further heating the charge in a reduction kiln to a temperature of less than 1000°C using hot waste gases of said reduction kiln, allowing the gas coming out of said preheating kiln to pass through a heat exchanger for heating the process air upto a temperature as herein described and injecting hydrocarbon oil in an early part of a cooler connected to said reduction kiln so that oil cracks down thermally and carburizes direct reduced sponge iron thereby raising the carbon content thereof between 0.5 and 0.9 percent, and finally separating the direct reduced sponge iron from the product mixture by magnetic separation technique after screening.

An apparatus for making direct reduced sponge iron using non-coking coal as claimed in any of the preceding claims, said apparatus comprises essentially a preheating kiln, a reduction kiln, an air-pre-heater, a heat exchanger and a cooler, said preheating kiln being located upstream of said reduction kiln and is interconnected so that hot waste gases leaving said reduction kiln travel through the preheating kiln; said cooler being connected to said reduction kiln is provided with injectors in the early part which acts as carburizing zone, the remaining part of said cooler is not refractory lined and is provided with lifter blades as a means for faster cooling.

(Provn. Specn. 9 pages;

Drawing Sheet 1)

(Complete Specification 13 pages).

CLASS: 190D.

170433

Int. Cl.<sup>4</sup>: F03D 11/00.

#### AN IMPROVED WIND MILL.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

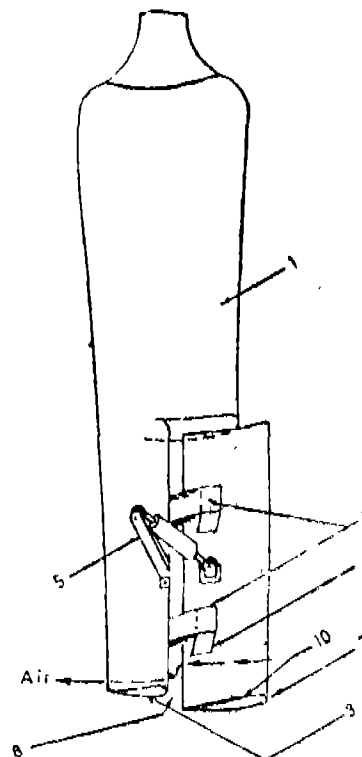
Inventor: SHARAT KUMAR TEWARI.

Application for Patent No. 66/Del/87 filed on 29 January 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 4 Claims

An improved wind mill comprising a frame mounted therein a vertical shaft and having two or more blades (1) the blades being provided near their leading edge in its entire length or a portion with an auxiliary aerofoil or flap (2), the auxiliary aerofoil or flap being supported by means of springs (3) mounted on a support edge (4), means (5) being provided between the blade (1) and aerofoil or flap (2) to control flapping and vibration leaving a gap (8) between the blade (1) and aerofoil or flap (2) so as to allow air to pass from underside or pressure surface of the auxiliary aerofoil or flap (2) on to the suction surface of the blade (1).



(Compl. Specification 5 pages;

Drwg sheet 1)

CLASS: 160C.

170434

Int. Cl.<sup>4</sup>: B60B 15/22 & 15/26.

AN ANCHORAGE DEVICE FOR ATTACHING A SECONDARY WHEEL CO-AXIALLY TO A PRIMARY WHEEL OF A VEHICLE.

Applicant and Inventor: THOMAS BARTLETT SNELL, OF THE OLD SAWMILLS, EAST COKER, YEOVIL, SOMERSET BA22 9JJ, UNITED KINGDOM, A U.K. CITIZEN.

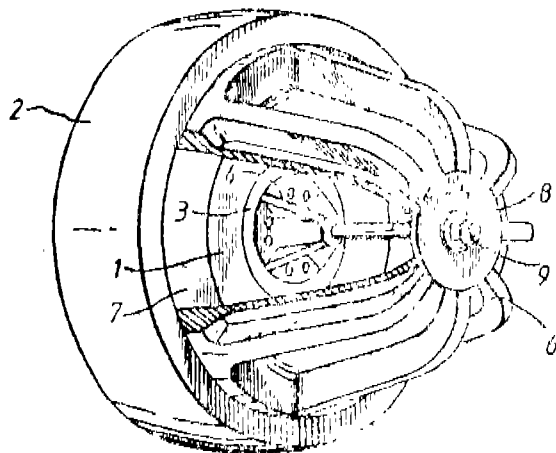
Application for Patent No. 87/Del/87 filed on 3rd February, 1987.

Convention date 4th February 1986/8602696/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 7 Claims

An anchorage device for attaching a secondary wheel (6) co-axially to a primary wheel (1) of a vehicle, said device comprising a member (4) for fixing to the hub (3) of the primary wheel using existing studs, a rod (5) with one end secured centrally to said fixing member (4) to extend co-axially of the secondary wheel (6) and retaining means (8, 9) at the other end of the rod (5) for retaining said secondary wheel (6) against the primary wheel (1), said rod (5) and said fixing member (4) having means (26, 28, 30, 31, 32, 35, 36, 37, 38) to enable said rod (5) to flex within a limited conc.



(Compl. Specn. 16 pages;

Drwg. 3 sheets.)

CLASS: 56 E

170435

Int. Cl.<sup>4</sup>: F28B 1/00.

CONTINUOUS PROCESS FOR PRODUCING DRY SYNTHESIS GAS.

Applicant: KINETICS TECHNOLOGY INTERNATIONAL CORPORATION, a corporation organised and existing under the laws of the State of Delaware, U.S.A., of 13333 S. Mayflower Avenue, Monrovia, California 91016, U.S.A. and FARMLAND INDUSTRIES, INCORPORATED, a corporation organised under the laws of Missouri, U.S.A., of 3315 North Oak Trafficway, Kansas City Missouri 64116, U.S.A.

Inventors: KENNETH VINCENT LAMB & HARVEY DONALD SPANGLER.

Application for Patent No. 102/Del/87 filed on 10th February, 1987.

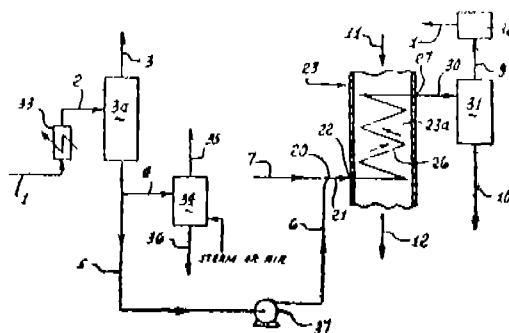
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 9 Claims

A continuous process for the production of a dry synthesis gas employing the process condensate resulting from the steam reformation of an input hydrocarbon feed gas in a gas production plant which comprises:

- (a) mixing said process condensate (6) with said input hydrocarbon feed gas (7);

- (b) subjecting the mixture (20) of process condensate and hydrocarbon feed gas to heat exchange with a low to medium temperature fluid stream (11) consisting of a flue gas having a temperature of from 350°F to 800°F whereby the heat of said stream (11) is transferred to said mixture (20) with the consequent vaporisation of said process condensate (7) and the saturation of said hydrocarbon feed gas (6) with said vapour;
- (c) removing any excess, unvaporised process condensate (10) from said saturated feed gas and recycling said excess condensate (10) for mixture with the input feed gas (1) to said gas production plant;
- (d) separating the saturated hydrocarbon feed gas into a dry gaseous product (9) and an aqueous condensate (10);
- (e) recycling said aqueous condensate (10) for injection under pressure into said hydrocarbon feed gas (1); and
- (f) recovering said dry gaseous product (9) as the desired dry synthesis gas.



(Compl. Specn. 18 pages;

Drwg. 3 Sheets.)

Ind. Cl.: 13 A.

170436

Int. Cl.<sup>4</sup>: B65D 30/24.

METHOD OF PRODUCING A VALVE SACK AND SACK PRODUCED BY THE METHOD.

Applicant: LENZING AKTIENGESELLSCHAFT, an Austrian company, of A 4860 Lenzing, Austria.

Inventors: BRUNO HAIDER, CHRISTIAN MOSER, THOMAS LANGER, BERNHARD RIEZLER AND GERNOT OTT.

Application for Patent No. 378/Del/87 filed on 1st May, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

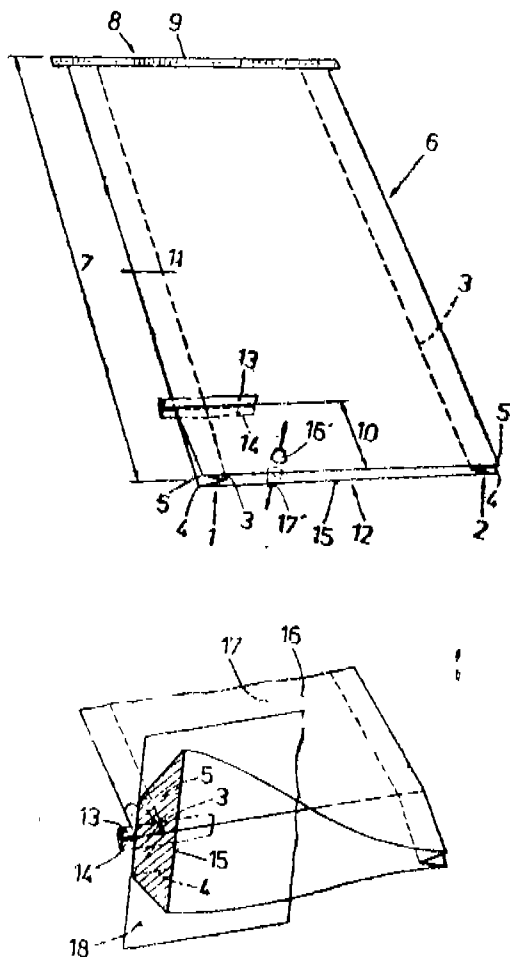
#### 9 Claims

Method of producing a valve sack having side folds (1, 2) from a tubular woven fabric or from a flat woven fabric or flat laid fabric made into a tube, characterised by,

- (a) at least partly extrusion coating the tubular body with a material that is chemically similar to the tubular body,
- (b) folding-in each of the side folds (1, 2) by forming an inner (3) and two outer folding edges (4, 5),
- (c) separating a sack blank (6) having the length (7) of a sack from the tubular body,
- (d) fixing or clamping, respectively, a side fold (1) of the sack blank (6) at a distance from the open sack head (12) of the sack blank (6) corres-

ponding to the desired valve height (10) by means of deflection edges (13, 14) located at both sides of the sack blank (6) and directed approximately parallel to the open sack head (12),

- (e) gripping each of the two outer folding edges (4, 5) at a distance corresponding to the folding depth (ii) of the side fold (i) with the deflection edges and folding them up, by about 90° each, into a plane (18) perpendicular to the plane of the sack blank (6) while extending the inner folding edge (3) and forming a trapezium,
- (f) subsequently folding together the trapezoidal foldup along the inner extended folding edge (3) and
- (g) inserting a folded valve sheet (21) between the side walls (16, 17) that are oppositely arranged after the folding together, and connecting the valve sheet with the open sack rim (15) located in the region of the valve and extending in the longitudinal direction of the sack blank.
- (h) thereupon closing the open sack head (12) provided with the valve.



(Compl Specn. 12 pages.

Drg. 1 sheet.)

Ind. Cl. : 50 D.

170437

Int. Cl. : F24F 3/00.

AN AIR COOLING APPARATUS.

Applicant & Inventor : PRABHAT KUMAR, AN INDIAN CITIZEN OF C-5/16, SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110 016, INDIA.

Application for Patent No. 814/DEL/87 filed on 17 Sept 1987.

Complete Specification left on 06 Dec 1988.

Post-dated to 06 Dec 1988.

Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 9 Claims

An air cooling apparatus comprising of a shell, (11) separating media (2), water distribution means, vapour evacuation means. Said shell inside being divided by said separating media in atleast two portions, air stream portion (12) and vapour stream portion (13),

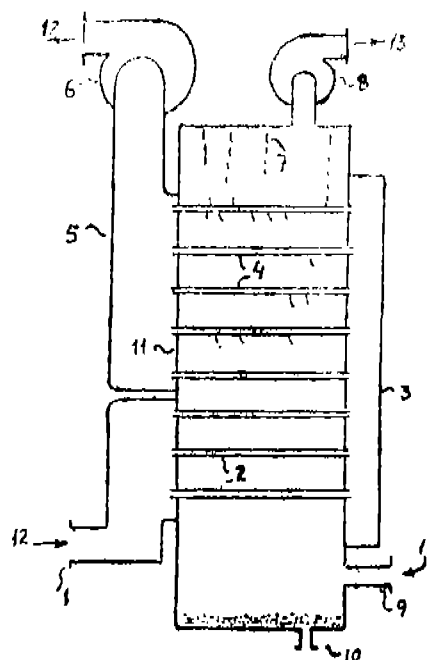
Said separating media (2, 4) consisting of atleast a heat conducting layer; said air stream portion having atleast an air stream inlet port in fluid communication along said separating media surface with atleast an upstream air stream outlet port; a draft inducing means being connected with said air stream portion to induce air stream flow from said air stream inlet port to said air stream outlet port;

said vapour stream portion being sealable and leakproof and a vapour evacuation means being connected with said vapour stream portion;

said vapour stream portion (9) having atleast a vapour stream inlet and outlet, a water inlet (10), outlet;

said water distribution means being connected with said vapour stream portion, spreading water atleast over said separating media surface of said vapour stream portion;

said water spreaded, drawing heat from air stream in said air stream portion through said heat conducting layer of said separating media to cause cooling of air stream and vapour passing out through said vapour stream outlet.



(Compl. Specn. 10 pages.

Drg. 1 sheet.)

IND. CL. : 32 F<sub>20</sub>

170438

Int. CL. : C07C 126/00 &amp; 126/02.

**AN IMPROVED PROCESS FOR THE SYNTHESIS OF UREA.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : MIRZA MOHAMMED TAQUI KHAN, SHIVAPPA BASAPPA HALLIGUDI & SAYED HASAN RAZI ABDI.

Application for Patent No. 1090/DEL/87 filed on 17 Dec 1987.

Complete Specification left on 14 Mar 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**3 Claims**

An improved process for the synthesis of urea which comprises reacting carbon monoxide and ammonia in the presence of a catalyst consisting of a platinum group metal complex selected from Ru(II)-EDTA-Co Complex at a pressure in the range of 15–30 atmosphere of carbon monoxide and temperature in the range of 60–100°C.

(Provisional Specification 3 pages)

(Compl. Specn. 6 pages.

Drg. 1 sheet)

IND. CL. : 32 F<sub>21</sub>

170439

INT. CL. : C07D 209/04.

**A PROCESS FOR THE SYNTHESIS OF DI-METHYL-2-SUBSTITUTED 1, 2, 3, 4-TETRAHYDRO-9H-PYRIDO (3, 4-B) INDOLE-3-CARBOXYLATES USEFUL AS ANTI-ULCER AGENTS.**

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AND INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

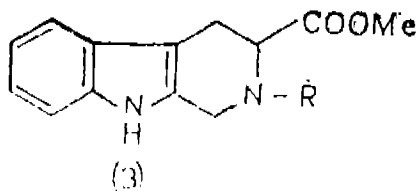
INVENTORS : RAVISH CHANDRA TRIPATHY, ANIL KUMAR SAXENA & GYANENDRA KUMAR PATA-NAIK.

Application for Patent No. 1097 DEL 87 filed on 18-12-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

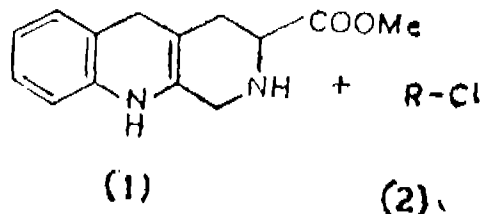
**6 Claims**

A process for the synthesis of di-methyl 2 substituted 1, 2, 3, 4-tetrahydro-9H-pyrido (3, 4-b) indole-3 carboxylates of the formula 3 of the drawings



where R represents aroyl, aryl-sulphonyl, aryl alkenyl, and piperidinoyl which may or may not be substituted, which

comprises condensing di-methyl 1, 2, 3, 4-tetrahydro-9H-pyrido (3, 4-b) indole 3-carboxylates of the formula 1 with a compound of the formula 2



where R has the meaning given above in the presence of a base such as herein described and an organic solvent such as herein described at a temperature in the range of 70–150°C.

(Comp. Spec. —6 pages

Drwg. 1 sheet)

IND. CL. : 62 A<sub>2</sub>

170440

INT. CL. : C11D 3/00 &amp; 3/60.

**A POWDERY OF GRANULAR DETERGENT COMPOSITION.**

Applicant : COLGATE-PALMOLIVE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A., OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, U.S.A.

Inventors : EVA H. PARFOMAK & WINSTON S. UCHIYAMA.

Application for Patent No. 200 DEL 89 filed on 3 March, 1989.

Divisional to Appln. No. 588 DEL 86 filed on 2 July, 1986.

Ante-dated to 2 Jul 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**6 Claims**

A powdery of granular detergent composition comprising from 1 to 20% by wt. of said composition an organic surfactant compound such as herein described selected from the group consisting of conventional anionic, nonionic, amphoteric zwitterionic organic synthetic surfactants and mixtures thereof from 5 to 93% by wt. of said composition at least one detergent builder salt such as herein described selected from the group consisting of conventional inorganic builder salts, organic builder salts and mixtures thereof characterised in that said composition also includes from 0.1 to 49% by wt. of said composition, a granular detergent additive composition consisting of a mixture of particles of an oxygen containing bleach compound as herein described and particles of an activator as herein described for said bleach compound, the weight ratio of said bleach compound and said bleach activator being in the range of from 4:1 to 0.3 to 1, said mixture of particles constituting from 55 to 95% by wt. of said additive composition, and at least 5% by wt. of a water-soluble binder as herein described, said mixture of particles being encapsulated in said binder.

(Compl. Specn. 36 Pages.

Drwg. 1 sheet)

IND. CL. : 62 A;

170441

6 Claims

INT. CL. : C11D 3/00 &amp; 3/60.

A GRANULAR DETERGENT ADDITIVE COMPOSITION AND A METHOD FOR PREPARING THE SAME.

Applicant : COLGATE-PALMOLIVE COMPANY, OF 300 PARK AVENUE, NEW YORK, NEW YORK 10022, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : EVA H. PARFOMAK & WINSTON S. UCHIYAMA.

Application for Patent No. 388 DEL 86 filed on 2 Jul 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 15 Claims

A granular detergent additive composition comprising 55 to 95% by weight to mixture of particles of an oxygen containing bleach compound as herein described and particles of an activator as herein described for said bleach compound, the weight ratio of said bleach compound and said bleach activator being in the range of from 4:1 to 0.3 to 1, and at least 5% by weight of a water-soluble binder as herein described, said mixed particles being encapsulated in said binder.

A method for preparing a granular detergent additive composition comprising,

mixing finely divided bleach compound and finely divided activator for said bleach compound,

mixing the mixture of bleach compound and activator compound with a molten, normally solid water-soluble binder,

extruding the resulting mixture, and

cutting the extrudate into granules,

whereby said bleach compound and activator compound in said granules will not react with each other until the granules are added to water at a temperature which will dissolve said binder.

(Complete Specification 38 Pages; Drawing Sheet 1.)

IND. CL. : 201 D.

170442

INT. CL. : C02F 9/00.

A FILTRATION APPARATUS FOR FILTERING WATER.

Applicant : BECTRA S.A. BUREAU D'ETUDE ET DE COORDINATION DE TRAVAUX D'ASSAINISSEMENT, A FRENCH COMPANY, OF 3, RUE ELISA LEMONNIER, 75012 PARIS, FRANCE.

Inventor : PHILIPPE DACQUET.

Application for Patent No. 13 DEL 87 filed on 6 Jan 1987.

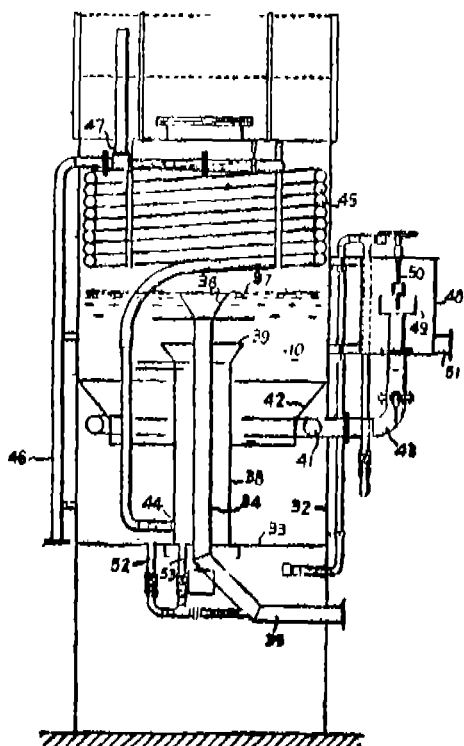
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

A filtration apparatus for filtering water which comprises :

- (a) a cylindrical container having a circular outer wall (2) and base member (3);
- (b) a central well within the container; said well being provided by means of a vertically extending generally cylindrical inner wall (5) disposed annularly within the container and said well having an outlet tube (23) at its bottom for draining any water which enters the well;
- (c) a plurality of vertical walls (9, 10, 11) extending radially from the cylindrical inner wall (5) to the circular outer wall (2) along the length of the container, whereby a plurality of chambers (6, 7, 8) is formed in the container, each chamber (6, 7, 8) being located between the central well and the outer well; each chamber (6, 7, 8) being in communication with the central well by means of an opening (22) at the top of the well, one opening (22) being provided for each chamber (6, 7, 8) whereby water which rises above said opening (22) can overflow into the well;
- (d) a plurality of filter beds (12), one bed (12) being provided for each chamber (6, 7, 8) said beds (12) being disposed on a horizontal plate (13) located in each chamber (6, 7, 8) at an elevated position above the base member (3); said plate (13) being equipped with a plurality of nozzle members (14) for the passage of water therethrough;
- (e) a plurality of evacuation chambers (15), each of which is located at the bottom portion of each chamber (6,7,8) below the plate (13); said evacuation chambers (15) being defined by the plate (13), the inner annular wall (5), the radial walls (9, 10, 11), the base member (3) and the circular outer wall (2); each evacuation chamber (15) being in communication with adjacent evacuation chambers (15) by means of openings (16) in the lower ends of the vertical radial walls (9, 10, 11) below the plate (13);
- (f) a chamber pipe (18) connected to each chamber (6, 7, 8), each chamber pipe (8) entering its respective chamber (6, 7, 8) through the outer circular wall (2) and each chamber pipe (18) having an open portion within the chamber for flowing water to and from each chamber (6, 7, 8);
- (g) a water distributor means (26, 27, 28) connected to each chamber pipe (18) via a water distributor pipe and a valve for regulating the flow of water into each chamber (6, 7, 8);
- (h) a chamber outlet pipe (20) connected to each chamber pipe (18) via a valve (21) for regulating the flow of water from each chamber (6, 7, 8); said chamber outlet pipe (20) having an opening at a level whereby water can exit the chamber (6, 7, 8) by gravity; and
- (i) an evacuation chamber pipe (24) connected to the bottom (3) of the container; said evacuation cham-



ber pipe (24) being in communication with an evacuation chamber (15) and said evacuation chamber pipe (24) being equipped with a valve (25).



(Complete Specification 14 Pages; Drawing Sheets 4.)

IND. CL.: 195 B.

170443

IND. CL.: F16T 1/12 & 1/14.

#### A COMBINATION OF A PILOT VALVE AND MAIN VALVE.

Applicant: VAPOR CORPORATION, A DELAWARE CORPORATION, OF 6420 W. HOWARD STREET, CHICAGO, ILLINOIS 60648, UNITED STATES OF AMERICA.

Inventor: RAYMOND GRANT REIP.

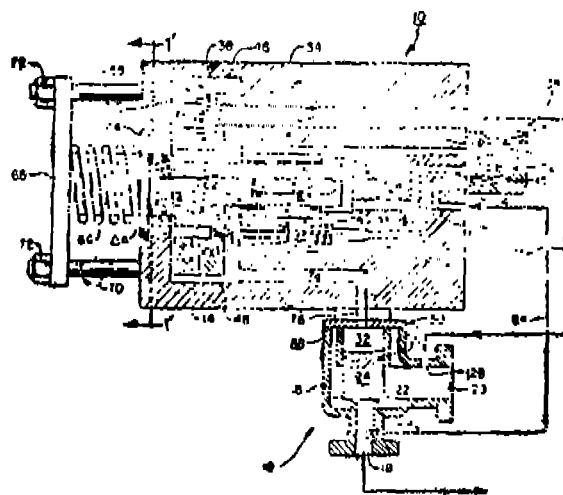
Application for Patent No. 38 DEL. 87 filed on 20 Jan 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 9 Claims

A combination of a pilot valve (206) and main valve (204), said pilot valve (206) for controlling the opening and closing of the main valve (204), the main valve (204) having a body (210) with an inlet (212) and an outlet (214). A valve chamber (220) in the main valve body (210), a head chamber (222) in the main valve body (210), a main valve closure member (218) reciprocally mounted in said valve chamber (210) and movable, responsive to the pressure in said head chamber (222), between a first position permitting fluid flow between said inlet (212) and said outlet (214) and a second position preventing fluid flow between said inlet (212) and said outlet (214); characterised by said pilot valve (206) comprising: a pilot valve body (224) having a pilot valve chamber (242), a vent valve chamber (230), and a first passageway (not numbered but contains

rod 229) connecting said pilot valve chamber (242) and said vent valve chamber (230), a pilot piston (227) reciprocally mounted in said pilot valve chamber (242), said pilot piston (227) having a head end (228) and a pressure sensing end (not numbered but containing part 235), said pilot piston (227) containing an internal chamber (240), a piston rod (229) extending from said pressure sensing (see above) end of said pilot piston (227) through said first passageway (see above) into said vent valve chamber (230), said piston rod (229) having a second passageway (254) therein to provide fluid communication between said vent valve chamber (230) and said internal chamber (240), said pilot valve body (224) having a third passageway (259) to provide fluid communication between said inlet (212) of said main valve body (210) and said pressure sensing end (see above) of said pilot piston (227) in said pilot valve chamber (242), said pilot valve body (224) having a fourth passageway (243) to provide fluid communication between said head chamber (222) in said main valve body (210) and said vent valve chamber (230), said pilot valve body (224) having a fifth passageway (250) to provide fluid communication between said vent valve chamber (230) and a vent opening (outlet of 250), a vent valve closure member (245) mounted on said piston rod (229) in said vent valve chamber (230) and movable by said piston rod (229) between a first position blocking said fifth passageway (250) and a second position unblocking said fifth passageway (250), an inlet valve closure member (252) positioned in said internal chamber (240) in said pilot piston (227) whereby in a first position of said pilot piston (227) the inlet valve closure member (252) blocks said second passageway (254) and in a second position of said pilot piston (227) the inlet valve closure member (252) unblocks said second passageway (254), and said pilot piston (227) having a sixth passageway (241) to provide fluid communication between said internal chamber (240) and the inlet (212) of said main valve body (210).



(Complete Specification 25 Pages; Drawing Sheets 3.)

IND. CL.: 116 G.

170444

INT. CL.: E21D 23/00.

#### AN ELONGATE ANCHOR ELEMENT TO BE ANCHORED IN A BOREHOLE IN A SUBSTRATE.

Applicant: FOSROC INTERNATIONAL LIMITED, A BRITISH COMPANY, OF 285 LONG ACRE, NECHELS, BIRMINGHAM B7 5JR, ENGLAND.

Inventors: ERNEST CRANKO & ROGER KEITH MOORE.

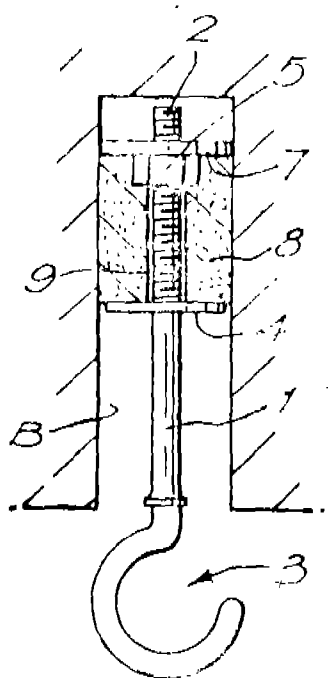
Application for Patent No. 58 DEL. 87 filed on 28 Jan 1987.

Convention dates 31 Jan 1986, 03 May 1986, 17 Oct 1986/8602471, 8610924, 8610925 & 8624882/U.K.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 7 Claims

An elongate anchor element to be anchored in a borehole in a substrate said anchor element having at least one sleeve (8) provided around a length portion of a bolt (1), means (5, 6, 7) being present at opposite ends of the sleeve (8) to apply a compressive force to the sleeve (8) to form a load bearing annulus about the length of the bolt (1), said sleeve (8) composed of particulate material bonded together by a relatively weak bonding force as herein described so that under applied compressive force the bonding forces within the sleeve are overcome causing the sleeve to bulge and form the load bearing annulus which engages the wall of the borehole.



(Complete Specification 22 Pages: Drawing Sheets 4.)

Ind. Cl. : 90 K.

170445

Int. Cl.<sup>4</sup> : C03C 3/083.

### A PROCESS FOR THE PRODUCTION OF COPPER RED GLASS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MAG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SACHCHIDANAND KUMAR, KAMESHWAR PRASAD SRIVASTAVA, SAILENDRA KUMAR DAS & RAVINDRA NATH DWIVEDI.

Application for Patent No. 62 DEL/87 filed on 28 Jan 1987.

Complete Specification left on 26 Apr 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 5 Claims

A process for the production of copper red glass, which comprises mixing the following ingredients within the range in weight percent of  $\text{SiO}_2$  (quartz) 60 to 80,  $\text{R}_2\text{O}$ -10 to 25,  $\text{R}'\text{O}$ -5 to 10,  $\text{R}''_2\text{O}_3=0.5$  to 12.0 wherein  $\text{R}_2\text{O}$  represents  $\text{Na}_2\text{O}$  or  $\text{K}_2\text{O}$  or mixtures thereof,  $\text{R}'\text{O}$  represents  $\text{CaO}$  or  $\text{MgO}$  or mixtures thereof  $\text{R}''_2\text{O}_3$  represents  $\text{Al}_2\text{O}_3$  or  $\text{B}_2\text{O}_3$  or mixtures thereof by mixing appropriate quantities of the said ingredients, preparing separately the copper chelate compound by reacting cuprous oxide with a carbamide or a fusion product thereof, adding the said copper chelate compound together with stannous oxide to the above mix ingredients melting the said mixture and cuprous compound and stannous oxide by heating at a temperature in the range of 1400—1500°C, in neutral atmosphere, homogenising the melt by known methods, casting/rolling/drawing blowing the melt in molten glass and annealing of the resulting glass by known methods.

(Provisional Specification 6 pages).

(Complete Specification 6 pages).

Ind. Cl. : 129 G & 136 C & E.

170446

Int. Cl.<sup>4</sup> : B28B 3/20, 21/42, 21/52 & 23.08.

### PROCESS FOR THE MANUFACTURE OF HOLLOW OR FLAT BODIES FOR USE IN FABRICATING TUBES, SILOS, PANELS AND WALLS AND DEVICE FOR THE IMPLEMENTATION OF THE SAID PROCESS.

Applicant & Inventor : ALEXANDRE GRAFVENITZ, A BELGIAN CITIZEN OF 6, RUE DES BLEUETS. B-7000 MONS, BELGIUM.

Application for Patent No. 105 DEL/87 filed on 10 Feb 1987.

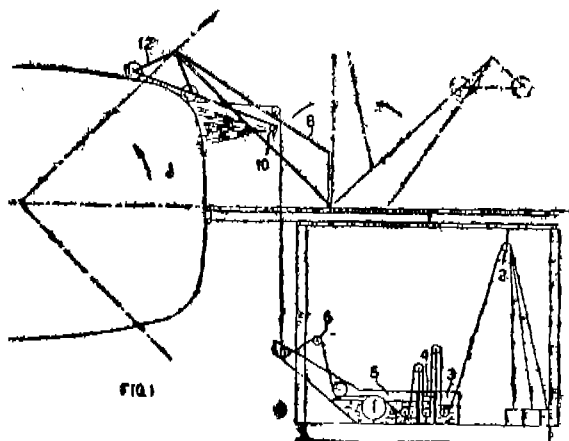
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 5 Claims

A process for the manufacture of hollow or flat bodies for use in fabricating tubes, silos, panels and walls which comprises impregnating chopped fibres of the kind such as herein described with cement mortar by spraying or laying at random, said chopped fibres on said cement mortar, winding said cement impregnated chopped fibres over a mandrel to form a first layer, said cement mortar being in the form of fine particles of 0.2 to 1.5 mm, impregnating continuous fibres of the kind such as herein described with an aqueous emulsion or solution of polymers selected from acrylic, epoxy or styrene polymers to obtain reinforced continuous fibres, said solution or emulsion also containing a conventional wetting agent, winding said reinforced continuous fibres, under tension over said first layer to form atleast a second layer, atleast partially hardening said layers in any known manner and withdrawing said layers as a composite structure in the form of hollow or flat bodies.

A device for carrying out the process as claimed in any one of the preceding claims which comprises a mandrel (1), atleast one tank (3, 4, 5) containing said impregnation solution or emulsion, said tank being movable along a direction parallel to the axis of said mandrel, a tilting arm (8) located between said mandrel and said atleast one tank (3, 4, 5) for enabling said continuous fibres to be wound around said mandrel in the form of a coil, an extrusion pultrusion device connected to said tilting arm (8) for depositing on said mandrel a layer of cement impregnated

chopped fibres, and means (12) for applying tension on said continuous fibres being wound over said mandrel, said tension means being connected to said tilting arm located between said tilting arm and said mandrel.



(Compl. Specn. 11 pages.

Drg. sheets 2)

Ind. Cl. : 117 A.

170447

Int. Cl.<sup>1</sup> : E05B 29/02.

#### LOCKING DEVICE.

Applicant : DOM-SICHERHEITSTECHNIK GmbH & CO., KG., of Wesslinger Strasse 10-16, 5040 Bruhl, West Germany, a German company.

Inventor : HEINZ WOLTER.

Application for Patent No. 106/DEL/87 filed on 11 Feb 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### Claims 11

A locking device comprising a lock cylinder (1) and a flat key (6) wherein the cylinder (1) has a housing (2) in which a cylinder plug (5) is rotatably accommodated together with a plurality of tumblers (9), the plug (5) having a profiled keyway (8) into which the tumblers (9) project in the locked condition of the device, and wherein an additional tumbler (17) is accommodated for sliding movement in a bore (18) extending parallel to the longitudinal centre plane (A-B) of the keyway (8), said additional tumbler (17) projecting across the joint line between the plug (5) and the housing (2) when the device is in its locked condition,

Characterised in that a longitudinally extending recess (16) is provided in one wide surface of the key, adjacent the back edge (14) thereof one end (E) of which recess (16) opens into the key tip (Sp), and the longitudinal side walls (19) of which are, at their key tip ends, each provided with an outwardly inclined run-in surface portion (I & II), a first of the surface portions (I) running into the key tip (Sp) and the second (II) being located rearwardly of the first (I), and in that the additional tumbler (17) has a projection (N) which projects into the keyway (8) and which is engaged in turn by the two surface portions (I & II) and is thus received in the recess (16) provided in the key (6) when the latter (6) is inserted in the keyway (8), the distance (7) of the second surface portion (II) from the end (26), remote from the key tip (Sp), of the recess being greater than the dimension, measured longitudinally of the keyway (8), of the projection (N), and the distance between the side walls (19) of the recess (16) at said remote end thereof and the heightwise dimension (X) of the projection (N) being such as to provide a close fit between the projection (N) and said end (26) of the recess (16).

(Compl. Specn. 16 pages.

Drg. sheets 7)

Ind. Cl. : 55 D<sub>2</sub> & 32 F<sub>1</sub>

170448

Int. Cl.<sup>1</sup> : A01N 33/04, 31/16 & C07C 51/00.

Title : Synthesis OF  $\alpha$ -(RS)-CYANO-3-PHENOXYBENZYL (±) CIS-2, 2-DIMETHYL-3-(2, 2-DICHLOROVINYL) CYCLOPROPANE CARBOXYLATE, A HIGHLY POTENT INSECTICIDE BELONGING TO THE SYNTHETIC PYRETHROIDS GROUP.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

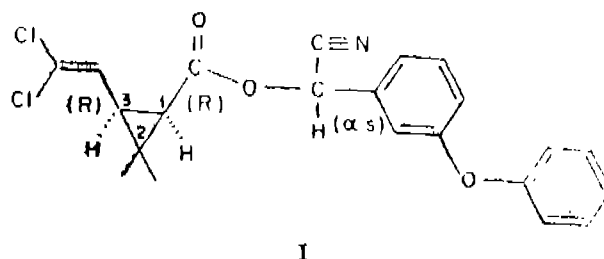
Inventors : RAJAT BARAN MITRA, GURUNTH HAN-MANTRAO KULKARNI, PRAHAD NARAIN KHANNA, BABU MANIKRAO BHAWAI, & ABDUL RAKEEB ABDUL SUBHAN DESHMUKH.

Application for Patent No. 117/Del/1987 filed on 13 Feb. 1987.

Complete Specification left on 04 May 1983.

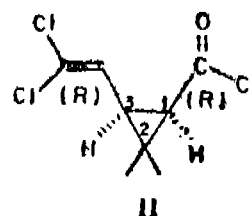
#### 5 Claims

An improved process for preparing  $\alpha$ -(RS)-cyano-3-phenoxybenzyl (±) cis-2, 2-dimethyl-3-(2, 2-dichlorovinyl) cyclopropane carboxylate of the general formula IV of the drawing accompanying the provisional specification which



I

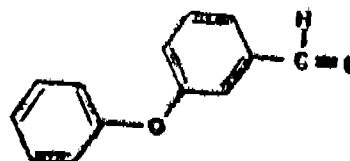
comprises reaching a solution of (±) cis-2, 2-dimethyl-3-(2, 2-dichlorovinyl) cyclopropane carboxylic acid chloride of the formula II



II

Formula III

and 3-phenoxybenzaldehyde of the formula III



Formula III

in an inert solvent with a mixture of an alkali metal cyanide, a phase transfer catalyst such as herein described and water at a temperature in the range of 35-40°C under stirring, separating the organic layer formed from aqueous layer washing with water, drying and distilling off the solvent.

(Provisional Specification 3 Pages

Drawing Sheet 1).

(Complete Specification 8 Pages).

IND. CL. : 32 E.

170449

INT. CL.<sup>4</sup> : C09J 3/14.

Title : A PROCESS FOR THE PREPARATION OF POLYMERIC AQUEOUS RESIN EMULSION FOR USE AS PRESSURE SENSITIVE ADHESIVE ON PAPER, METAL FOILS TAPES AND SURGICAL PLASTS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : CHANDRASEKHARA SAI KUMAR, SAMBASANKARAN RAJADURAI, KANNAKARATHARAYIL GOPALAN ANANDA DEV & GOPALAKRISHNA THIYAGARAJAN.

Application for Patent No. 118/Del/87 filed on 13 Feb. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi -110005.

### 11 Claims

A process for the preparation of polymeric aqueous resin emulsion for use as pressure sensitive adhesive on paper, metal tapes and other substrates which comprises polymerization of acrylic and vinyl monomer by adding the mixture of monomers slowly into a colloidal emulsifier system consisting of free radical initiators such as herein described and a polymeric protective colloid having a degree of polymerization of about 500 to 600 such as carboxymethyl cellulose and polyethylene oxide condensate.

(Complete Specification 7 Pages).

IND. CL. : 206 E.

170450

INT. CL.<sup>4</sup> : G06F 7/00.

Title : APPARATUS FOR CONTROLLING ACCESS TO A SYSTEM BUS OF A DATA PROCESSING SYSTEM.

Applicant : DIGITAL EQUIPMENT CORPORATION, a corporation organised under the laws of the Commonwealth of Massachusetts, United States of America, 146 Main Street, Maynard, MA 01754 U.S.A.

Inventors : ROBERT EUGENE STEWARD, PAUL JAMES NATUSCH, EUGENE LAY YU, JAMES BERNARD KELLER & JOHN FREDERICKY HENRY.

Application for Patent No. 120 DEL 87 filed on 13 FEB 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi -110005.

### 3 Claims

Apparatus for controlling access to a system bus of a data processing system, having a plurality of data processing (10, 11, 12, 13, 14) units and a memory unit (15), said system bus (19), connected to said data processing units (10, 11, 12, 13, 14) and said memory unit (15), for transferring logic signal groups between said plurality of data processing units (10, 11, 12, 13, 14) and said memory unit (15) comprising :

an arbitration unit (20) connected to each of said data processing units (10, 11, 12, 13, 14) and said memory unit (15) for selecting a data processing unit to gain access to said system bus (19) in response to request signals sent from said data processing units (10, 11, 12, 13, 14) on the connection between respective data processing units and said arbitration unit (20), said request signals being generated by respective ones of said data processing units requiring access to said system bus; and

signal means connected between said memory unit (15) and said arbitration unit (20), said signal means sending

a busy signal on said connection to said arbitration unit when said memory unit (15) can accept no additional logic signal groups from said system bus (19), said busy signal preventing said arbitration unit (20) from selecting a data processing unit (10, 11, 12, 13, 14), said arbitration unit (20) selecting a data processing unit to gain access to said system bus (19) in response to at least one of said request signals from said respective ones of said data processing units (10, 11, 12, 13, 14) after said busy signal is not applied for a period of time at least equal to the time for said selected data processing unit to generate a new request signal.

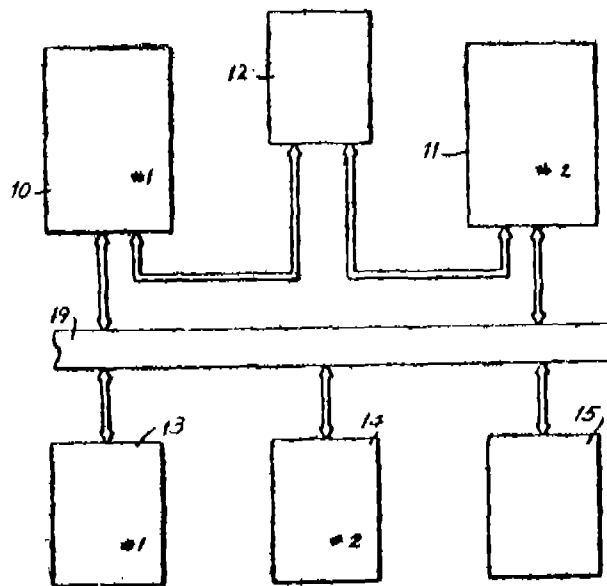


Fig. 1

(Compl. specn. 22 pages

Drgs. 5 sheets)

IND. CL. : 206 E.

170451

INT. CL.<sup>4</sup> : G 06 F 12/00.

AN APPARATUS FOR ADDRESSING MEMORY LOCATIONS IN RESPONSE TO ADDRESS SIGNALS.

Applicant : DIGITAL EQUIPMENT CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, UNITED STATES OF AMERICA, OF 146 MAIN STREET, MAYNARD, MA 01754 USA.

Inventors : PAUL JAMES NATUSCH, DAVID CARMINI SENERCHIA, JOHN FREDERICK HENRY.

Application for Patent No. 122/DEL/87 filed on 13 Feb. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

### 4 Claims

An apparatus for addressing memory locations in response to address signals which are maintained on a bus (32) for a limited time, said apparatus comprising :

a memory unit (53);

first signal generating means (S<sub>1</sub>), coupled between said bus and said memory unit, for generating an enable signal during said limited time upon receipt of an address signal from said bus or said memory unit and for maintaining said enable signal beyond said limited time to permit said memory unit to respond to said address signal, said first signal generating means having a first

latch signal unit (43a) being responsive to said receipt of said address signal to generate a first latch signal lasting for a first period of time, said first latch signal providing at least a first portion of said enable signal and being sufficiently fast to maintain at least some overlap of said first portion with any earlier portion of said enable signal, and

a second latch signal unit (43b) being responsive to said first latch signal to generate a second latch signal lasting for a second period of time, said second latch signal providing at least a second portion of said enable signal and being sufficiently fast to maintain at least some overlap with said first portion of the said enable signal and being of sufficient duration to assure that said enable signal extends beyond said limited time; said first and said second latch signal units being connected between said bus and said memory unit, and

second signal generating means (52), having an enable signal input terminal coupled to receive said enable signal from said first signal generating means and being coupled between said bus and said memory unit, for receiving and supplying said address signal to said memory unit in response said address signal to said memory unit in response to said receipt of said enable signal and for maintaining said address signal for said memory unit for the duration of said enable signal, and a third signal generating means (53) for converting system clock signals received from said bus to memory clock signals which provide said earlier portion of said enable signal, said third signal generating means being connected between said bus and said memory unit,

whereby said address signal is available to said memory unit for a sufficiently long time period to permit operation of said memory unit without maintaining said address signal on said bus for the entire long time period needed for operation of said memory unit.

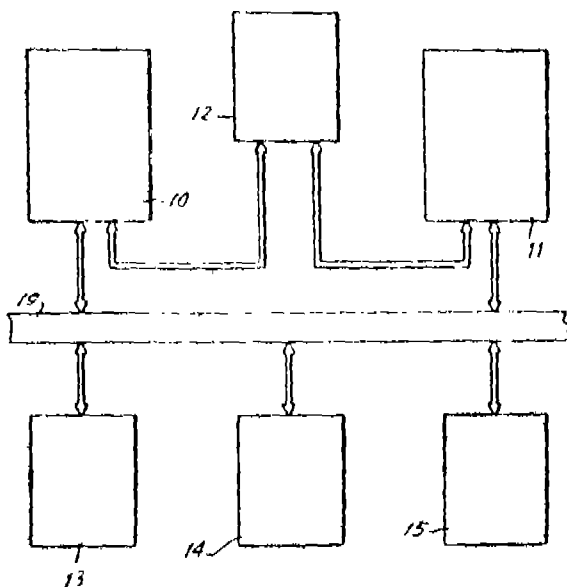


Fig. 1

(Compl Specn. 19 pages.)

Drgs. 4 sheets.)

Ind. Cl. : 158 B E<sub>9</sub>.

170452

Int. Cl.<sup>4</sup> : B 61 F 5/00, 5/06 & 5/08.**SUSPENSION ARRANGEMENT FOR RAIL VEHICLES.**

Applicant : WAGGONFABRIK TALBOT, A GERMAN COMPANY, OF JULICHER STRASSE 213-237, D-5100 AACHEN, WEST GERMANY.

Inventors : FRANZ-JOSEPH COLLIENNE, LEONHARD CORSTEN AND JOHANNES NICOLIN.

Application for Patent No. 124/DEL/87 filed on 13 Feb. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**6 Claims**

A suspension arrangement for rail vehicles, comprising : at least one pair of superimposed elastomeric lower and upper shock absorbers (5a, 5b), the said upper shock absorber (5b) is placed between the upper mandrel (8) and the upper bell-shaped member (9) and the said lower shock absorber (5a) is placed between the lower mandrel (6) and the lower bell-shaped member (7), characterised in that the said lower bell-shaped member (7) and upper mandrel (8) are placed between the said two shock absorbers (5a, 5b) and are interconnected in a sequential connection and as a result of that they carry out not only a movement in the main direction of shock absorption, but also a pendulum movement about any axis disposed transverse to said main direction of shock absorption.

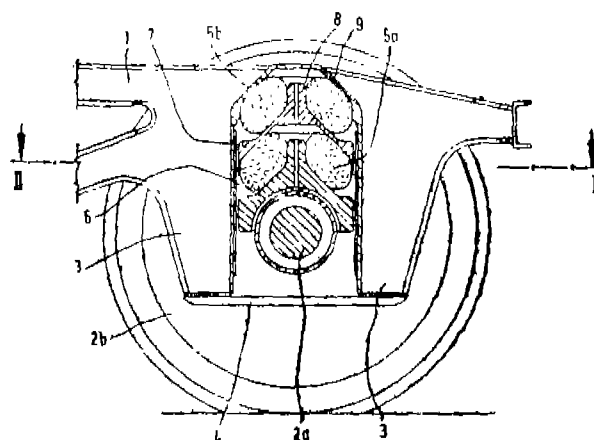


Fig. 1

IND. CL. : 32 E.

170453

IND. CL. : 32 E

Int. Cl.<sup>4</sup> : C 10 L 3/00.**PROCESS FOR REGENERATION OF SPENT RESIN.**

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDT LAAN 30, 2596 HR, THE HAGUE, THE NETHERLANDS.

Inventors : CONSTANT JOHAN VAN LOOKEREN CAMPAGNE AND EDWARD DAVID ASIHENE OBENG.

Application for Patent No. 129/DEL/87 filed on 16 Feb. 1987.

Convention date 17 February 1986/8603842/U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**6 Claims**

A process for the regeneration of spent resin obtained during the removal of hydrogen sulphide from natural gas contaminated with hydrogen sulphide which comprises treating the natural gas with a metal ion exchange resin doped with ions of a metal selected from magnesium, calcium, vanadium, chromium, manganese, iron, cobalt, nickel, copper, zinc, cadmium and lead resulting in purified natural gas and spent resin, characterised in that said spent resin is regenerated by treatment thereof with an oxidising microorganism of the kind such as herein described at a temperature in the range of from 10°C to 70°C and at a pH in the range of from 1 to 9.

(Compl. specn. 13 pages.)

IND. CL.: 85 C.

170454

Int. CL.: F 27 B 1/00, 1/04 &amp;

F 27 D 3/00, 3/12.

## APPARATUS FOR CHARGING A SHAFT FURNACE.

Applicant: PAUL WURTH S. A., A COMPANY ORGANISED UNDER THE LAWS OF THE GRAND-DUCHY OF LUXEMBOURG, OF 32 RUE D'ALSACE, L-1122 LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG.

Inventors: EDOURD LEGILLE, EMILE LONARDI & GERMAIN SCHILZ.

Application for Patent No. 143/DEL/87 filed on 18 Feb. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 8 Claims

Apparatus for charging a shaft furnace (20) equipped with a chute (22) for distributing the charging material inside the furnace (20) which comprises at least two container (28, 30) for storing the charging material, a sluicing system for introducing said material onto the distribution chute (22) and a valve cage (26) on the mouth of the furnace (20), said valve cage (26) having a flow duct with a metering valve (74) for controlling the flow of said material on to the distribution chute (22) characterised in that said at least two containers are located on mounting means for displacement horizontally to move between an unloading position aligned on the vertical axis (0) of the furnace (20) and a loading position spaced laterally from the vertical (0) axis of the furnace (20).

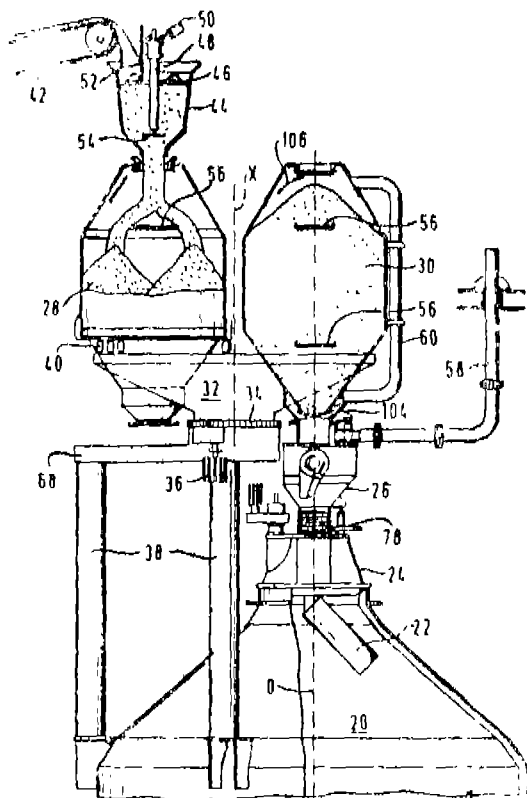


Fig. 1

(Compl. specn. 13 pages

Drgs. 5 sheets)

IND. CL.: 184.

170455

Int. CL.: B65D 181/24.

## AN APPARATUS FOR ASEPTICALLY FILLING AND STORING DEGRADABLE LIQUID CONTENTS.

Applicant: BCL PACKAGING LIMITED, FORMERLY KNOWN AS WRIGHTCEL LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF VICTORIA, OF 8-12 CATO STREET, HAWTHORN, VICTORIA, AUSTRALIA.

Inventor: IAN McARTHUR ANDERSON.

Application for Patent No. 144/DEL/87 filed on 18 Feb. 1987.

Convention date 3rd March 1986/PH 4854/Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 3 Claims

An apparatus for aseptically filling and storing degradable liquid contents, said apparatus comprising (a) a flexible container (1) having a sealed inlet, said inlet being capable of being opened and resealed; (b) a fluid dispenser which incorporates a sterilizable product conduit comprising (i) two openings for allowing ingress or egress of degradable liquid contents, (ii) one of said openings being located to abut the said container inlet (44), (iii) a valve member (22) located for reciprocal movement within said conduit for closing the other of said openings, (iv) said valve member carrying means for rupturing a sealing membrane (41) located over said container inlet, (v) resilient sealing means providing a seal between the conduit and said valve members between said two openings (vi) at least one sterilizing fluid inlet and at least one sterilizing fluid outlet (45) opening onto said conduit adjacent the opening which abuts the container inlet, said inlets and outlets being disposed laterally of produced flow; (c) a nozzle recess (46) connected to said sterilizing fluid inlet and outlet through which sterilizing fluid is introduced for sterilizing the containers while said inlet is closed; (d) container support means for bringing said container inlet into engagement with said filling head such that said recess is closed by the container inlet; (e) inlet means for injecting said sterilizing fluid into said recess; (f) rupturing means to open said container inlet; (g) means to actuate said valve to allow liquid to pass through said recess, and fill said container; and (h) heat sealing means located external to said fixed filling head to reseat said inlet.

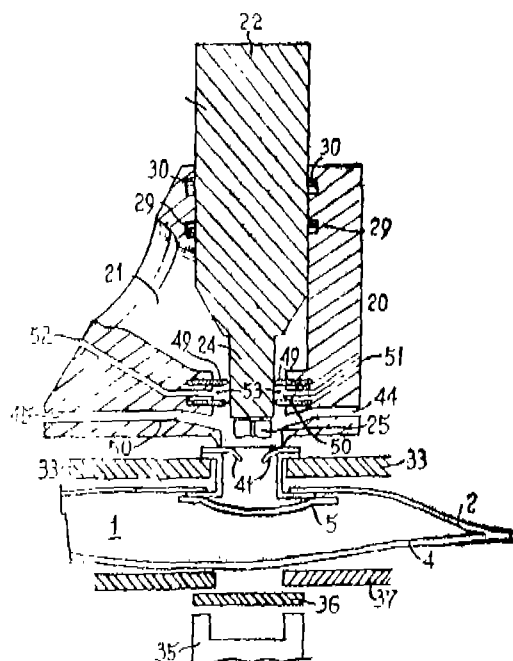


Fig. 3

(Compl. specn. 12 pages

Drgs. 4 sheets)

IND. CL. : 85 C

170456

Int. Cl.<sup>4</sup> : F 27 B 1/00, 1/04 &

F 27 D 3/00, 3/12.

## APPARATUS FOR CHARGING A SHAFT FURNACE.

Applicant : PAUL WURTH S.A., A COMPANY ORGANISED UNDER THE LAWS OF THE GRAND-DUCHY OF LUXEMBOURG, OF 32 RUE D'ALSACE, L-1122 LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG.

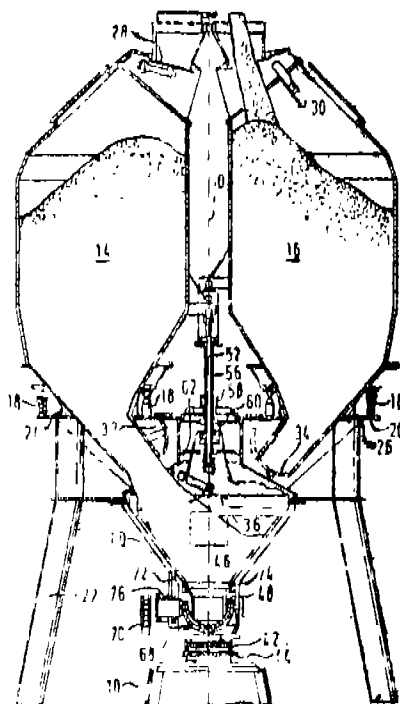
Inventors : EDOUARD LEGILLE, EMILE LONARDI & GERMAIN SCHILZ.

Application for Patent No. 146/DEL/87 filed on 18 Feb. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

Apparatus for charging a shaft furnace, comprising a rotating or swivelling distribution chute, a hopper (46) with a central flow duct (46) above the chute, said hopper (46) having an opening with a metering member (68) for controlling flow of material from said hopper opening and which opens symmetrically around a central axis (0) of the furnace (10), said hopper (46) having mounted above it two containers (14, 16) provided with upper and lower sealing valves (28, 30, 36) as well as with a further metering member (32, 34) for regulating flow towards the hopper (46), characterised in that said hopper (46) from the point of view of static is independent of the furnace mouth (10) and is located inside a sealed chamber (40) mounted on a frame (22) or on the furnace mouth (10), suspension means (50, 52, 56) for said hopper (46) which enable it (46) to be connected to the container (14/16) which is being emptied and to be disconnected from the container (16/14) which is being filled.



(Compl. Specn. 19 pages.)

Drgs. 3 sheets.)

IND. CL. : 50 E<sub>2</sub>

170457

Int. Cl.<sup>4</sup> : F 25 B 1/00 & 9/00.

## APPARATUS FOR REDUCING THE INITIAL INERTIA OF A PISTON IN A WIND POWER DRIVEN RECIPROCATING COMPRESSOR.

Applicant : DYNA PRODUCTS AB, A COMPANY ORGANISED UNDER THE LAWS OF SWEDEN, OF P.O. BOX 73, S-751 03 UPPSALA, SWEDEN.

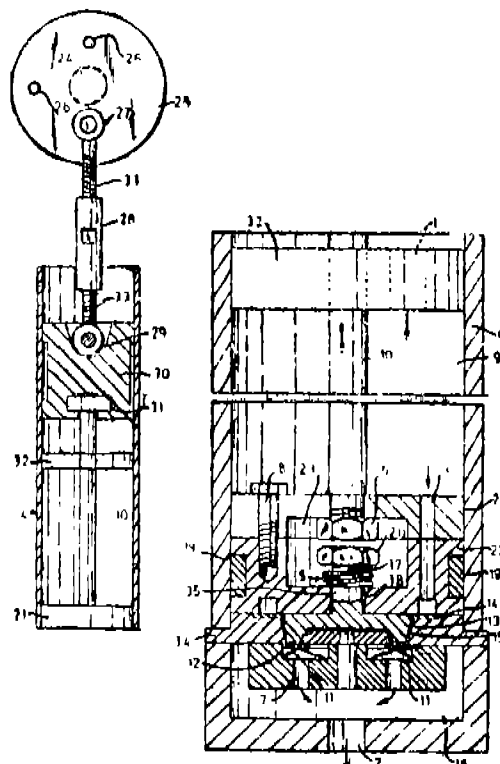
Inventor : LEIF ERIKSSON.

Application for Patent No. 158/DFL/87 filed on 24 Feb. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

An apparatus for reducing the initial inertia of a piston in a wind-power driven reciprocating compressors for compressible media characterised in that the piston of the compressor is of hollow construction and comprises two mutually separable piston parts (21, 22), an upper piston part (21) which is connected to the piston rod (10), having an adjustable abutment means (6) such as a stop nut located on one end thereof, a gas passage (3) being provided within said piston parts (21, 22), said gas passage communicating with a suction chamber (9) at one end and with the compressor chamber (15) at the other end, said piston parts embodying centrally therewithin a closed cavity (23) in which the free end of said piston rod (10) carrying said abutment means (6) is accommodated a valve spindle (35) extends through a bore provided in the lower part (22) of said two part piston with a clearance (18) between the peripheral surface of said spindle and the wall of the bore, the free end of said valve spindle extending into said cavity (23) and said spindle having an adjustable abutment means (20) similar to said abutment means (6), a coil spring (5) located between said abutment means (20) and the opposing surface of said closed cavity (23) in the lower part (22) of said piston, the top of said coil spring (5) being spaced from said abutment means (20) by a given distance (17), said distance constituting control means for said piston.



(Compl. specn. 13 pages)

Drg. 1 sheet)

IND. CL. : 140 A<sub>2</sub>

170458

Int. Cl.<sup>4</sup> : C 10 M 133/44**A LUBRICATING COMPOSITION.**

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U. S. A.

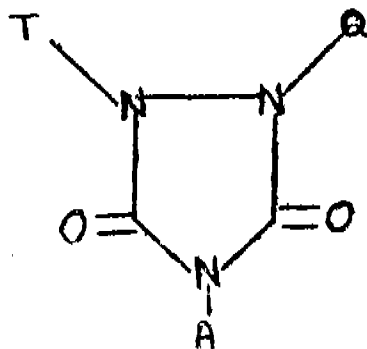
Inventor : ROGER LEE SOWERBY.

Application for Patent No. 295/DEL/87 filed on 08 Apr. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**10 Claims**

A lubricating composition comprising an oil of lubricating viscosity and an additive defined by the formula I of the drawings



Formula 1

wherein T and Q may be the same or different and represent hydrogen, hydrocarbyl, sulfur, phosphorus boron, a metal cation, acyloxy hydrocarbyl, imido hydrocarbyl, hydrocarbyl repeating units such as herein described hydrocarbyl urazole (1) containing repeating units, an acylurazole repeating units such as herein described an acyl group, or hydrocarbyl acyl containing group, a repeating unit of an acyl group, a repeating unit of a hydrocarbyl acyl containing group, or together form a pi bond between the two adjacent nitrogen atoms and A is hydrogen, hydrocarbyl, a hydrocarbyl urazole (1) group, a repeating unit of a hydrocarbyl containing acyl group or a repeating unit of a hydrocarbyl containing acyl group which is bonded directly to or through a hydrocarbyl group and/or to another urazole (1) group; with proviso that when T & Q are both hydrogen or independently alkylcarbonyl, alkylamino-methylene, A is not hydrogen, alkyl, cycloalkyl, aryl, aralkyl, alkyl carbonyl or alkyaminomethylene; said additive prepared by a process as herein described and being present in an amount of from 0.05 to 20 per cent by weight of the composition.

(Compl. specn. 54 pages)

Drgs. 4 sheets)

IND. CL. : 140 A<sub>2</sub>

170459

Int. Cl.<sup>4</sup> : C 10M 125/26.**LUBRICANT COMPOSITION**

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BLVD., WICKLIFFE, OHIO 44092, USA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U. S. A.

Inventors : JAMES JAY SCHWIND & CRAIG DANIEL TIPTON.

Applicant for Patent No. 816/DEL/87 filed on 17 Sept. 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**11 Claims**

A lubricant composition suitable for a manual transmission fluid comprising :

- 0.5% to 8% by weight of a boronated overbased alkali metal or alkaline earth metal salt selected from the group consisting of sulfonates phenates oxylates, carbolates and mixtures thereof;
- 0.1% to 5% by weight of a friction modifier selected from the group consisting of fatty phosphites fatty acid amides, borated fatty epoxides, fatty amines, glycerol esters and their borated derivatives, borated alkoxyated fatty amines, sulfurized olefines and mixtures thereof;
- and 0.1% to 98% by weight of an oil of lubricating viscosity.

(Compl. specn. 41 pages).

IND. CL. : 179 F.

170460

Int. Cl.<sup>4</sup> : B 21 D 51/44 &

B 65 D 41/02, 41/14.

**A PROCESS FOR THE MANUFACTURE OF ALUMINIUM CAPS.**

Applicant & Inventor : VIVEK MULL, CHANDRA AGRO PVT. LTD., MULL BUILDING, ASHOK MARG, LUCKNOW (U.P.) INDIA.

Application for Patent No. 967/Del/87 filed on 10 Nov. 1987.

Complete Specification left on 8th February 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

**5 Claims**

A process for the manufacture of aluminium caps having anti rust properties which comprises in cleaning a aluminium sheet by a degreasing agent at a temperature of 80—90°C, applying a coating of an epoxy resin and a hardener as herein described on the cleaned aluminium sheet, subjecting said sheet having the said coating thereon to the step of curing and then forming the cap by any known method from the said sheet.

(Compl. specn. 5 pages).

IND. CL. : 32 B &amp; 40 B

170461

Int. Cl.<sup>4</sup> : C 07 C 4/06.**A PROCESS FOR HYDROCRACKING HIGH BOILING HYDROCARBON FEED STOCKS TO PRODUCE LOW BOILING PRODUCTS.**

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., WITH OFFICES AT : OLD RIDGEBURY ROAD, DENBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventors : FRANK PETER GORTSEMA, REGIS JOSEPH PELLET, ALBERT RAYMOND SPRINGER, JULIE ANTHONY RABO & GARY NORMAN LONG.

Application for Patent No. 1067/DEL/85 filed on 17 Dec. 1987.



Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 19 Claims

A process for hydrocracking high boiling hydrocarbon feedstock to produce lower boiling products in the presence of hydrogen comprising contacting at conventional process conditions said feedstock with a conversion catalyst characterised in that said conversion catalyst comprises from 1.0% to 30% by wt. of said conversion catalyst, at least one hydrogenation catalyst and the balance amount of at least one non-zeolitic molecular sieve (NZ-MS) of the kind as herein described having in its calcined form as absorption of oxygen at least 4 percent by weight at a partial pressure of 100 torr and a temperature of  $-186^{\circ}\text{C}$ .

(Compl. specn. 72 pages

Drgs. 12 sheets)

IND. CL. : 205 A & 136 M

170462

Int. Cl.<sup>4</sup> : B 60 C 5/12, 5/14, 5/16 &

B 29 H 17/00.

A SELF-SEALING PNEUMATIC TIRE WITH AN INNER SURFACE AND A PUNCTURE SEALANT LAYER.

Applicant : UNIROYAL TIRE COMPANY, INC. A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW JERSEY, ONE OF THE UNITED STATES OF AMERICA, LOCATED AT WORLD HEAD-QUARTERS, MIDDLEBURY, CONNECTICUT 06749 (USA).

Inventors : SUNG WHEE HONG & PHILLIP JULIUS CANGELOSI.

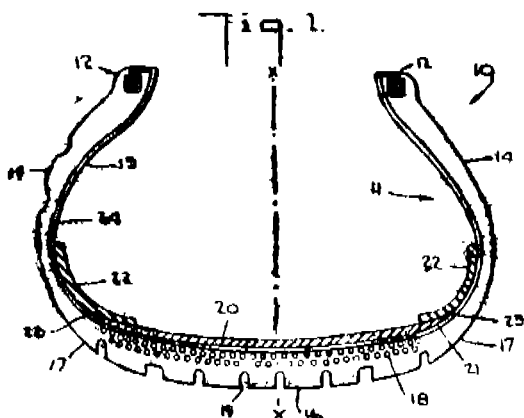
Application for Patent No. 54/Del/86 filed on 20th Jan. 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

## 23 Claims

A self-sealing pneumatic tire (10) with an inner surface and a puncture sealant layer disposed on at least a portion of said inner (13) surface, said tire (10) being provided with sealant (20) retainer edge strips carried by said inner (13) surface and overlapping at least edge (21) portions of said sealant (20) layer but leaving at least a portion of said sealant (20) layer exposed within said tire.

The tire including a tire carcass and tread region, wherein said sealant layer and retainer edge strips together with an air impermeable elastomer strip that forms a liner on the inside of said tire comprise a laminate structure adhered to the remainder of said tire carcass wherein the sealant is disposed on said elastomer strip along the tread region of said tire, and the edge strips are adhesively attached to said elastomer strip and partially overlapping said sealant layer but leaving at least a portion of said sealant layer exposed within said tire.



(Compl. specn. 20 pages  
3-517GI 91

Drgs. 2 sheets)

Ind. Cl. : 50 D

170463

Int. Cl.<sup>4</sup> : F28D 1/00.

## AN AIR COOLER.

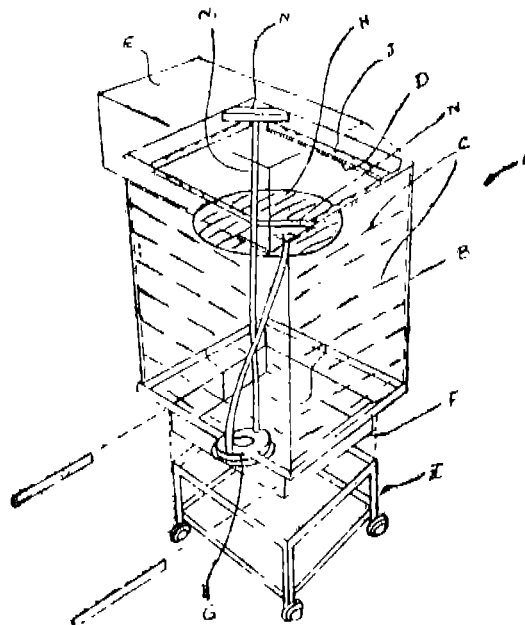
Applicant & Inventor : RAM NARAIN KHER, AN INDIAN NATIONAL, OF B-1/148, LAJPAT NAGAR, NEW DELHI-110 024, INDIA.

Application for Patent No. 110/Del/87 filed on 11th February 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

An air cooler comprising a cabinet (B) supported on the water tank through intermediate inclined walls (P), pads (D) being provided on each side of said cabinet, a blower (H) provided in the upper portion of the cabinet so as to deflect the air upwardly, characterised in that means consisting troughs having plurality of slits on its inner side for allowing flow of water onto the respective pads, said troughs being provided on all inner sides of said cabinet at least one channel member abutting the trough and having an inlet connected to a water pump and an outlet for dispensing water into the said adjacent troughs.



(Provisional specification 7 pages).

(Compl. specn. 10 pages

Drwgs. 2 sheets)

Ind. Cl. : 206 E

170264

Int. Cl.<sup>4</sup> : G06F 7/00.

A MEMORY BOARD FOR USE IN A MAIN MEMORY UNIT OF A DATA PROCESSING SYSTEM.

Applicant : DIGITAL EQUIPMENT CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, UNITED STATES OF AMERICA, OF 146 MAIN STREET, MAYNARD, MA 01754 U.S.A.

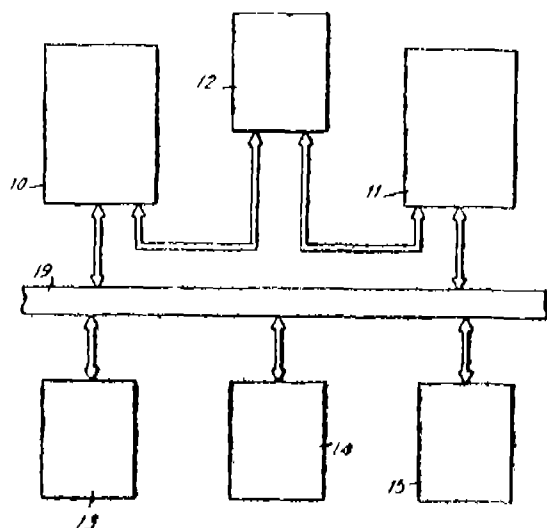
Inventors : PAUL JAMES NATUSCH, EUGENE LAY YU, DAVID CARMINE SENERCHIA, JOHN FREDERICK HENRY.

Application for Patent No. 121/Del/87 filed on 13th February 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A memory board for use in a main memory unit (15) of a data processing system, said memory unit having a plurality of such memory boards (50', 51"), said memory board comprising storage means (53, 54) for processing data signals by storing and retrieving said data signals in response to address and command signals concurrently with said other memory boards (50', 51") in said main memory unit (15), said storage means having a plurality of memory array units (53, 54) each having means for processing said data signals in response to said address and command signals concurrently with other of said memory array units (53, 54) and for generating an array status signal indicating the current availability of that memory array unit to process said data signals, and board status means (51), coupled to said storage means, for generating board status signals from said array status signals, said board status signals indicating the current availability of said storage means (53, 54) to process said data signals.



(Compl. specn. 20 pages)

Drgs. 4 sheets)

Ind. Cl. : 39H &amp; 40F

170465

Int. Cl. : C01B 11/06, 11/14.

#### A BIPOLAR CELL FOR THE PRODUCTION OF CHLORATES AND HYPOCHLORITES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : KAPISTALM CHETLUR NARASIMHAN, MUTHURAMALINGAM SADAGOPALAN, RAJAPPA PALANSAMY & VENKATESWARAN RENGARAJAN.

Application for the Patent No. 652/Del/87 filed on 29th July, 1987.

Complete Specification left on 22nd August, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

A bipolar cell for the production of chlorates and hypochlorites which comprises two end electrodes (1&2) one of which (1) being the anode and is a titanium coated with any noble metal oxides and the other (2) being cathode which is a mild steel. The cell being divided in two or more compartments by intermediate interleaved arrangement of explosion bonded bipolar electrodes (5) having one side titanium coated with any noble metal oxides and the other side of mild steel.

The compartment being connected alternatively at the top and at the bottom for the continuous flow of electrolyte, the cell having an inlet at one end for the electrolyte and outlet at the other end the end electrodes having provision for electrical connections (12 & 13).

(Provisional Specification 7 pages)

(Compl. specn. 11 pages)

Drg. 1 sheet)

Ind. Cl. : 198 B

170466

Int. Cl. : D 06 F 29/00, 35/00, 41/00, 43/00.

#### A METHOD OF TREATING A SOILED TEXTILE WASH LOAD TO RESTORE TO ITS FORMER CONDITION.

Applicant : WHIRLPOOL CORPORATION, 2000 M-63, BENTON HARBOR, MICHIGAN 49022 UNITED STATES OF AMERICA, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELEWARE IN THE UNITED STATES OF AMERICA.

Inventor : ROBERT BRENNER. ANTHONY HOMER HARDAWAY.

Application for Patent No. 659/Del/87 filed on 30th July 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A method of treating a soiled textile wash load to restore to its former condition in a washing apparatus having a rotatable wash zone including a peripheral wall, means for rotating said peripheral wall and said wash load in said wash zone about a generally vertical axis, and means for providing mechanical agitation to said wash load within said wash zone, comprising the steps of :

- (1) introducing said textile wash load into said wash zone;
- (2) rotating said wash load and said peripheral wall at a speed that is sufficient to maintain the load against the peripheral wall;
- (3) delivering a concentrated detergent solution onto said spinning wash load during at least a portion of the time said load is being spun;
- (4) terminating steps 2 and 3 after a first predetermined time period;
- (5) introducing water to said wash zone to dilute the detergent solution;
- (6) agitating the load in the dilute detergent solution for a second predetermined period; and
- (7) rinsing said detergent solution from said clothes load.

(Compl. specn. 20 pages)

Drgs. 3 sheets)

Ind. Cl. : 160 A LII (3)

170467

Int. Cl. : H01H 1/00.

#### A PROCESS FOR PRODUCING A WATER-RESISTANT ALUMINUM ALLOY ELECTRICAL CONTACT CONDUCTOR FOR VEHICLES.

Applicant : ALCAN INTERNATIONAL LIMITED, OF 1188 SHERBROOKE STREET, WEST MONTREAL, QUEBEC, CANADA H3A 3C2, A COMPANY INCORPORATED UNDER THE LAWS OF CANADA.

Inventor : PAUL-EMILE FORTIN

WILLARD MARK GALLERNEAULT.

Application for Patent No. 702/Del/87 filed on 12th August 1987.

Convention date 20th August 1986 & 20th May 1987/516434 & 537462/CANADA.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A process for producing a wear-resistant aluminum alloy electrical contact conductor for vehicles comprising the steps of (1) forming an alloy comprising 0.2-1% by weight magnesium, 1-7% by weight silicon with the silicon present in an excess of at least 0.6% and the balance being aluminum and incidental impurities, (2) casting said alloy into a continuous bar, (3) hot rolling to form rod without intermediate cooling under the temperature as herein described, (4) quenching the hot rolled rod as herein described, (5) cold deforming the quenched rod in a manner as herein described and (6) subjecting the cold deformed rod to artificial aging as herein described.

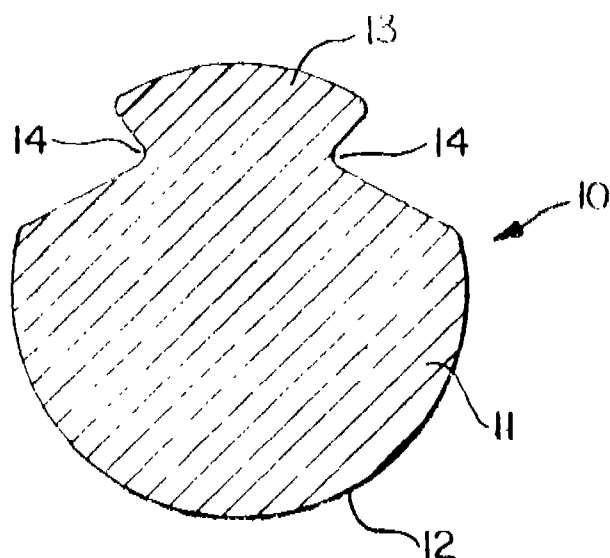


Fig. 2

(Compl. Specn. 11 pages.

Drgs. 2 sheet(s.)

Ind. Cl. : 87 C

170468

Int. Cl.<sup>4</sup> : A63B 49/00 & 49/10.

A GAMES RACKET SUCH AS A TENNIS RACKET.

Applicant : WILSON SPORTING GOODS CO., OF 2233 WEST STREET RIVER GROVE, IL 60171 U.S.A.

Inventor : MARK LEE KARASEK.

Application for Patent No. 757/Del/87 filed on 26th August 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A games racket constituted by a body member consisting of a handle portion, a loop-shaped head portion and a throat portion connecting said handle portion and said head portion, the longitudinal axis of said racket aligning with the centerline of said handle portion and the midplane of said racket extending through said longitudinal axis parallel to the plane of said loop-shaped head portion, said throat portion including a pair of frame members which diverge from said handle portion and merge with said loop-shaped head portion, said racket including a yoke piece which extends between said diverging frame members

and forms the bottom of said loop-shaped head portion, characterised in that the height of said racket perpendicular to its midplane is at a maximum in said diverging frame members in the area where said yoke piece merges with said diverging frame members, said height decreasing continuously from its area of maximum height to the top of said head portion and from its area of maximum height to the top of said handle portion, the ratio of said maximum height to the height at the top of said head portion being from 1.35 to 1.38, said racket having a frequency of the first mode of bending under free-free constraint conditions (as herein defined) in a plane which extends perpendicular to said midplane within the range of 170 Hz to 250 Hz and a frequency of the second mode of bending under clamped-free constraint conditions (as herein defined) in the same plane within the range of 215 Hz to 315 Hz.

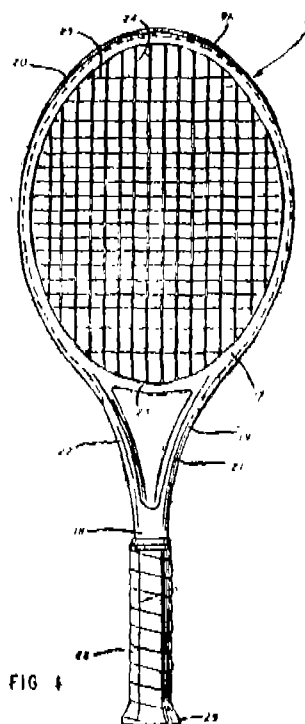


FIG 1

(Compl. specn. 14 pages

Drgs. 4 sheets)

Ind. Cl. : 32 B

170469

Int. Cl.<sup>4</sup> : C07C 5/13/22.

PROCESS FOR PRODUCING HIGH OCTANE HYDROCARBONS FUEL FROM A HYDROCARBON FEED- STOCK.

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., WITH OFFICES AT : OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT, 06817, UNITED STATES OF AMERICA.

Inventor : ANDREW STEPHEN ZARCHY.

Application for Patent No. 889/Del/87 filed on 09th October 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A process for producing high octane hydrocarbons fuel from a hydrocarbon feedstock containing normal hydrocarbons and at least about 1 ppm by weight sulfur comprising

providing a reactor feed containing said feedstock, with a water content of less than about 5 ppm by weight, and introducing the reactor feed having a water content of less than about 5 ppm by weight into a reactor containing an isomerization catalyst comprising at least one of platinum or palladium supported on molecular sieve having an apparent pore diameter large enough to absorb neopentane, under isomerization condition in the presence of hydrogen sufficient to convert normal hydrocarbons to non-normal hydrocarbons.

(Compl. specn. 17 pages

Drgs. 1 sheet)

Ind. Cl. : 104 P

170470

Int. Cl.<sup>4</sup> : C08C 19/10.

#### A PROCESS FOR ISOMERIZING A BROMINATED BUTYL RUBBER.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF P.O. BOX 390, FLORHAM PARK, NEW JERSEY 07932, UNITED STATES OF AMERICA.

Inventors : IRWIN JEROME GARDNER, JAMES VINCENT FUSCO, NEIL FREDERICK NEWMAN, FRANCIS PAUL BALDWIN, RONALD CHARLES KOWALSKI AND WILLIAM MYERS DAVIS.

Application for Patent No. 1025/Del/87 filed on 01st December 1987.

Divisional to Application No. 270/Del/85 filed on 29th March 1985.

Auto-dated to 29th March 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 8 Claims

A process for isomerising a brominated butyl rubber thereby shifting a substantial fraction of the bromine from an initial secondary allylic configuration to a primary allylic configuration said process comprises contacting a solution of the brominated butyl rubber with HBr at a temperature of less than 40°C for a time sufficient to effect the isomerization, the ratio of HBr to brominated rubber being 0.5/1 to 50/1.

(Compl. specn. 26 pages

Drgs. 3 sheets)

Ind. Cl. : 170 B [XLIII (4)]

170471

Int. Cl. : C11D-1/02. 1/83, 4/08, 10/04.

#### DETERGENT COMPOSITION AND PROCESS FOR PREPARING THE SAME.

Applicants : HINDUSTAN LEVER LTD, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) ROBERT DONALDSON

(2) ANDREW TIMOTHY HIGHT

(3) MICHAEL WILLIAM HOLLINGSWORTH

(4) KEIICHI KAWAFUCHI.

Application No. 112/Bom/1989 filed April 28, 1989.

U.K. Convention date April 29, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 29 Claims

A granular detergent composition having a bulk density of at least 650 g/litre, which comprises :

(a) from 17 to 35 wt. : of non-soap detergent-active material consisting at least partially of anionic detergent-active material;

(b) from 28 to 45 wt. (anhydrous basis) of crystalline or amorphous sodium aluminosilicate, the weight ratio of (b) to (a) being from 0.9; 1 to 2.6; 1, plus other components to 100 wt.

(Compl. specn. 42 pages

Drgs. Nil.

Ind. Cl. : 170B+D[XLIII(4)]

170472

Int. Cl. : C11D—11/00, 3/08, 17/06.

#### PROCESS FOR PREPARING DETERGENT COMPOSITIONS AND COMPOSITIONS THEREBY PRODUCED.

Applicants : HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) ROBERT DONALD SON

(2) ANDREW TIMOTHY HIGHT

(3) MICHAEL WILLIAM HOLLINGSWORTH

(4) KEIICHI KAWAFUCHI

(5) DONALD PETER.

Application No. 113/Bom/1989 filed April 28, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

#### 19 Claims

A process for the preparation of a granular detergent compositions having a bulk density of at least 650 g/litre, which comprises the steps of :

(i) treating a particulate material comprising 5 to 70 wt% of one or more non-soap detergent-active compounds such as herein described, and 15 to 45 wt% of one or more inorganic builders in a high-speed mixer/granulator having both a stirring action and a cutting action, in the presence of an aqueous liquid binder, whereby granulation and densification bulk density of at least 650 g/litre are effected;

(ii) subsequently to the granulation and densification of step (i) admixing finely divided amorphous sodium aluminosilicate to the granular material obtained in step (i), said finely divided amorphous aluminosilicate being added in an amount of from 0.2 to 5.0 wt% based on the total composition, while including other ingredients such as herein described.

(Compl. specn. 33 pages

Drgs. Nil)

Ind. Cl. : 179 G [XL (6)]

170473

Int. Cl. : B65D 47/02, 47/36.

#### A DROPPER NOZZLE WITH PILFER RESISTANT CLOSURE HOOD FOR BOTTLE OR THE CONTAINER.

Applicant & Inventor : GIRISH KAUSHIK, 39D-I INDIAN AIRLINES COLONY, KALINA, SANTACRUZ, BOMBAY-400 029, MAHARASHTRA, INDIA.

Application No. 128/Bom/1989 filed May 12, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

## 2 Claims

A dropper nozzle with pilfer resistant closure hood for a bottle or like container according to this invention comprises a combination of a squeeze dropper nozzle, the base of said dropper nozzle being integral with a flange having an inner and an outer skirt forming double walled skirt in spaced apart relationship with each other and adapted to get into press fitted complementary engagement within corresponding matching pilfer resistant closure hood linked at its base to inner periphery of central opening by means of plurality of radially extending tearable lugs wherein said flange being extended downwardly to form a skirt, the bottom rim thereof being provided with a lock ring adapted to slide over and get into radially dead locked complementary engagement with matching catch ring formed below the neck ring of a bottle or like container when said closure hood with said dropper nozzle is slid over said neck ring so as to form a pilfer resistant closure hood therefor characterised in that inner wall surface of inner of said jacketed double walled skirt and squeeze dropper nozzle is provided with vertically extending serrations forming guide for easy flow of viscous fluid therealong in droplets by gravity feed with or without squeezing said squeeze dropper nozzle.

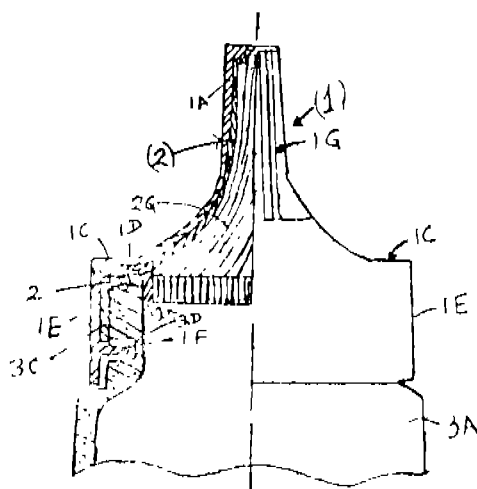


Fig. 5

(Compl. specn. 12 pages

Drgs. 2 sheets)

Ind. Cl. : 127D—LXV(1)  
134 B—L11(1)

170474

Int. Cl. : F16H—1/00;  
B60K—11/00.

### POWER TRANSMITTING AXLE DRIVING DEVICE FOR AUTO VEHICLES.

Applicant & Inventor : PESTONJI NARIMAN CONTRACTOR, 10, REUBENS APPARTMENT, 30 NAPEAN-SEA ROAD, BOMBAY 400036, MAHARASHTRA, INDIA.

Application No. 177/Bom/89 filed on June 29, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims

Power transmitting axle driving device for auto vehicles, comprising of a central housing, accomodating ring bevel gear, placed at axis of which is at an angle to vertical, and the said ring bevel gear is having teeth on both sides of its peripheries, driving the two bevel gears driven gears of axle shafts; one of the said driven gear is meshing with one side of the ring gear and the other is meshing with the other side of the ring gear; the said

ring is coupled to the propellor shaft, through the pinion bevel gear, as in the known way.

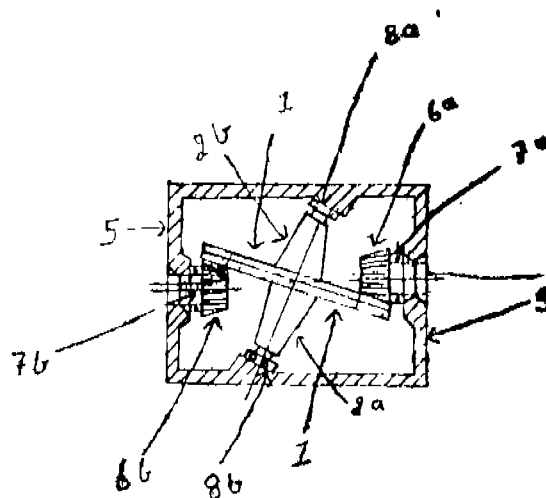


Fig. III

(Compl. specn. 7 pages

Drgs. 3 sheets)

Ind. Cl. : 123 I (4)

170475

Int. Cl. : C09 g—1/00, 1/06.

### A PROCESS FOR PRODUCING CHLORIDE FREE NPK FERTILIZERS.

Applicant : INDIAN FARMERS FERTILIZER CO-OPERATIVE LIMITED, AT KANDLA 370 220, GUJARAT STATE, INDIA.

Inventor : JANARDAN PRASAD SINGH.

Application No. 204/Bom/1989 filed on 20-7-1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

## 6 Claims

A process for producing chloride free NPK fertilizer comprising :

- making a mixture of phosphoric acid and the muriate of potash (KCl);
- ammoniating the said mixture of phosphoric acid and muriate of potash to any desired mole ratio/pH as herein described;
- slurry so obtained is cooled at a temperature as herein described, crystallized and centrifuged to separate the solid material from the mother liquor; and
- said solid material is granulated and then dried.

(Compl. specn. 11 pages

Drgs. Nil)

Ind. Cl. : 178 gr. [XXV(3)]

170476

Int. Cl. : B 28 D—5/00, 5/04, 7/04.

### DEVICE FOR CLEAVING DIAMOND AND THE LIKE OBJECTS WITHOUT KERFING.

Applicant & Inventor : SHARATCHANDRA DATTA-TRAYA TASE, J-3, NAV-PRABHAT CO. OP. HOUSING SOCIETY, HANUMAN ROAD, VILE-PAREL (EAST), BOMBAY-400 057, MAHARASHTRA, INDIA.

Application No. 310/Bom/1988 filed on 10-11-1988.

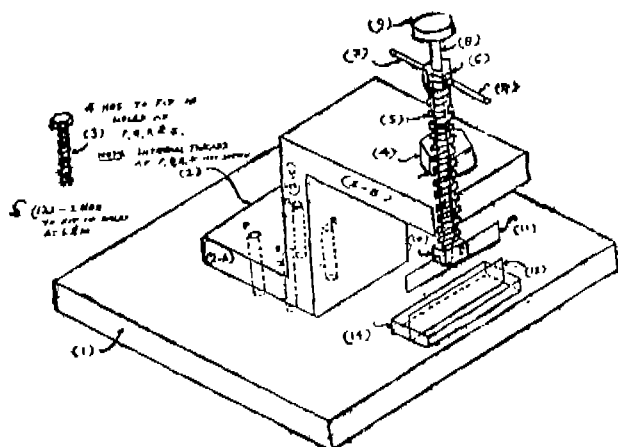
Complete after provisional left on 9-2-1990.

Appropriate office for opposition proceedings (Rule 4, Paten's Rules, 1972) Patent Office Branch, Bombay-13.

## 2 Claims

A device for cleaving diamond and the like objects without kerfing comprising :

- a flat rigid base plate a rigid bracket fixed to the said flat rigid base plate with help of bolts a hole made in the upper horizontal rigid Grm of the said rigid bracket;
- a nut welded coaxially with the said hole in the said upper horizontal rigid arm of the said rigid bracket a bolt threaded in the said nut;
- an axial hole provided in the said bolt threaded in the said nut the said hole also passing through the bolt head a pair of horizontal solid rigid pins welded to a pair of vertical opposite surfaces of the said bolt head;
- a solid rigid pin passing through the said axial hole of the bolt;
- a button-shaped flat pin head provided at the upper end of the said solid rigid pin and the lower end of the said solid rigid pin being externally threaded;
- an upper-blade-holder-block provided with threaded hole at its upper end for threadedly engaging with the lower threaded end of the said solid rigid pin;
- a vertical slot provided in the lower end of the said upper-blade-holder-block, an upper blade provided in the said vertical slot, one or more threaded holes provided in the front side of the said upper-blade-holder-block for passing threethrough one or more screws for holding the upper blade in the said vertical slot,
- a tray-type lower-blade-holder moveably provided on the said flat rigid base plate below the said upper blade;
- a pair of side slots provided in the two opposite sides of the said lower-blade-holder and a lower blade tightly fitted in the said pair of side slots of the lower-blade-holder.



(Prov. Specn. 8 pages  
(Compl. specn. 9 pages

Drgs. Nil)  
Drgs. 1 sheet)

Ind. Cl. : 33A, D, H Gr. [XXXIII(3)]

170477

Int. Cl. : B22D-13/00, 27/08+B22 C-13 08.

A METHOD OF MANUFACTURING FINNED CYLINDER LINERS.

Applicant & Inventor : SHRI PRASANNA NARAYAN PARANJAPPE, OF 'NIRDHAR' 41/19, KARVE NAGAR SOCIETY, SAHYADRI CHOWK, PUNE 411 029, MAHARASHTRA, INDIA.

Application No. : 345/BOM/1988 filed on 23-12-1988.

Complete after provisional left on 12-1-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

## 3 Claims

A method of manufacturing finned cylinder liners comprising of the following steps :

- (a) preparing very fine resin coated silica sand from washed silica sand, hexamine, phenolic resin, iron oxide or mil scale and an acid from phenolic derivative of organic group such as salicylic acid, mixed in a desired manner to give very fine resin coated silica sand having hot tensile strength of about 40 kg f cm<sup>2</sup>;
- (b) preparing a shell mould from the said very fine resin coated silica sand with the help of an inner die in a known manner;
- (c) placing the said shell mould inside the outer die of the centrifugal casting machine and rotating it at a desired initial speed;
- (d) pouring molten metal in the said rotating shell mould and applying multistage speed of rotation to the said shell mould having molten metal.

Prov. Specn. 6 pages.  
(Compl. Specn. 13 pages.

Drg. one sheet.  
Drgs. 4 sheets.)

Ind. Cl. 189 LXVI (9).

170478

Int. Cl. : A 61 K—7/13.

AN AQUEOUS SINGLE PHASE COMPOSITION, PARTICULARLY FOR USE IN THE TREATMENT OF KERATINOUS FIBRES.

Applicant : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : ROBERT JOHN WARWICK HEFFORD ANDREW MALCOLM MURRAY.

Application No. : 269/BOM/1989 filed on Oct 3, 1989.

Divisional of 241/BOM/1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

## 15 Claims

An aqueous single phase composition, particularly for use in the treatment of keratinous fibres, which comprises :

- (i) from 0.1 to 10% by weight of a cationic polymer or mixtures thereof;
- (ii) from 0.01 to 10% by weight of an anionic monomer or mixtures thereof;
- (iii) a solubilising agent chosen from amphoteric detergent active compounds, inorganic electrolytes and mixtures thereof, provided that when the solubilising agent against an amphoteric detergent active compound,

it forms from 0.1 to 20% by weight of the composition, and when the solubilising agent is an electrolyte, it forms from 1 to 30% by weight of the composition:

the composition having an anionic to cationic charge ratio of from 0.2 to 1.0.

Comp. Specn. 35 pages. Drgs. Nil.

Ind. Cl. : 32A, IX (1).

170479

Int. Cl. : C09B-62/00, 62/006, 62/008.

A PROCESS FOR THE PREPARATION OF NOVEL DISAZO REACTIVE DYES HAVING TWO REACTIVE SYSTEMS.

Applicants : JAYSYNTH DYECHEM LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 303, NAVJIVAN, 125/127, KAZI SAYED STREET, BOMBAY-400 003, MAHARASHTRA, INDIA.

Inventors : Dr. Shrikant Hari Gole.

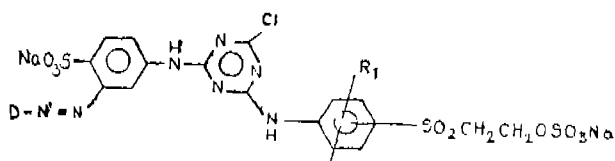
Application No. 323/BOM/89, filed on 20-11-1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

## 2 Claims

A process for the preparation of novel disazo reactive dyes having two reactive systems and being of the formula I shown in the accompanying drawings, wherein D is a disazo chromophore and  $R_1$  and  $R_2$  each is H,  $CH_3$  or  $OCH_3$  said process comprises :

- (i) coupling a diazotised diazo component such as herein described with a coupling component such as herein described at 0.5°C and pH 6.5-7 in an aqueous medium;
- (ii) condensing the resulting monoazo chromophore with a first condensing agent such as herein described at 0.5°C and pH 6.5-7 in an aqueous medium;
- (iii) further condensing the resulting disazo reactive intermediate with a second condensing agent such as herein described at 50—55°C and pH 6.5-7 in an aqueous medium;
- (iv) precipitating the disazo reactive dye of the formula I with an alkali metal salt such as herein described;
- (v) filtering the reactive dye of the formula I; and
- (vi) drying the reactive dye of the formula I at 50—70°C.



Comp. Specn. 9 pages. Drgs. Two sheets.

Ind. Cl. : 170 B+-D [XLIII (4)]

170480

Int. Cl. : C 11 D—9/20.

IMPROVED PROCESS OF PREPARING DETERGENT BARS.

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) SUNIL MANOHARLALSAHANI (2) DEVDATTA SHIVAJI SANKHOLKAR.

Application No. : 274/BOM/1988 filed on 21-9-1988.

Complete after Provisional left on 18-12-1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

## 11 Claims

An improved process of preparing a detergent bar containing

- (i) 25 to 60% by weight of detergent of which at least 50% by weight is soap.
- (ii) 30 to 60% by weight of solid, water insoluble particulate structurant, which comprises at least some water insoluble polysaccharide, and
- (iii) 8 to 35% by weight water, characterised in that a charge of fatty acids which are to provide the soap content of the bar is neutralised by addition of alkali in the presence of at least partly of said structurant.

Prov. Specn. 10 pages. Drg. Nil.

Comp. Specn. 14 pages. Drg. Nil.

Ind. Cl. : 70 C3, B, [LVIII (5)]

170481

201 D, [II (4)]

Int. Cl. : C02F, 1/46; 1/76, C 25B, 1/26, B 63 J-4/00.

A NOVEL CHLORINE ACTIVATOR FOR CHLORINATING POTABLE WATER.

Applicant : ION EXCHANGE (INDIA) LIMITED at Tieclcon House, Dr. E. Moses Road, Bombay-400 011, Maharashtra, India.

Inventors : 1. Subhas Rajaram Korgaonkar, 2. Khushal Premchand Mahajan, 3. Clifford Francis D'Souza & 4. Dr. Vijay Shripad Kamat.

Application No. 99/BOM, 1989 filed 19th April, 1989.

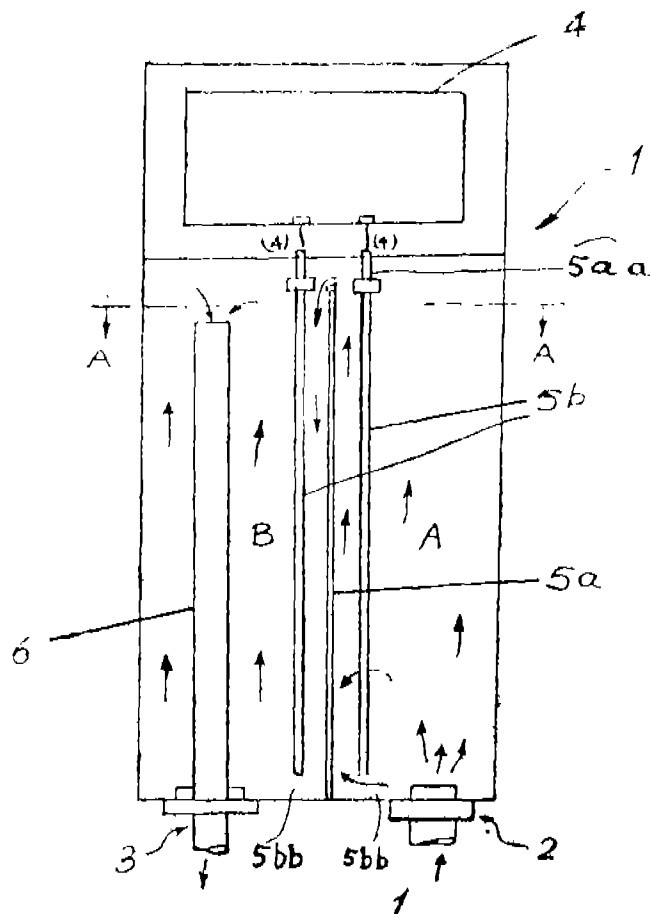
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

## 4 Claims

A novel chlorine activator for chlorinating potable water comprising a container for water, said container being provided with an inlet for feeding water to be chlorinated and an outlet for removing chlorinated water, said container also having a source of D.C. power, cathode and a pair of anodes provided within the container and connected to the said D.C. power source, with the proviso that :

- (i) the said cathode and anodes are parallelly disposed with a gap of not more than 10 mm from one another and extend substantially continuously within the said container;
- (ii) the pair of the said anodes are positioned one on either side of the cathode leaving the clearance of 10mm therebetween and
- (iii) wherein the said cathode and pair of anodes are mounted between a pair of parallel sides of the container, leaving a clearance (5bb) between the lower ends of the anodes and the bottom surface of the container while the cathode is mounted similar to the anodes or its lower end sealingly

rests on the bottom surface of the container, there being an opening (5aa) near the upper end of the cathode.



Comp. Specn. 17 pages. Drg. 1 sheet.

Ind. Cl. : 6B1 XLVII(1)

170482

Int. Cl. : C07C 7/00, 7/04.

**PROCESS FOR THE RECOVERY OF PROPANE AND HEAVIER HYDROCARBONS FROM GASES AND AN APPARATUS THEREFOR.**

Applicants : ELCOR CORPN; MIDLAND, TEXAS, U.S.A.

Inventors : 1. ROY E CAMPBELL, 2. JOHN D. WILKINSON, 3. HANK M. HUDSON.

Application No. 118/Bom/89 filed May 5, 1989.

20 Claims

A process for the recovery of propane and heavier hydrocarbons from a gas containing methane,  $C_2$  components,  $C_3$  components and heavier hydrocarbon components, comprising the steps of

- (a) cooling said gas under pressure as hereinbefore described, to provide a cooled stream;
- (b) expanding said cooled stream to a lower pressure as hereinbefore described whereby it is further cooled; and
- (c) fractionating said further cooled stream at said lower pressure to recover the major portion of propane components and heavier hydrocarbon components in said relatively less volatile fraction;

The improvement wherein said gas is cooled sufficiently as aforesaid to partially condense it; and

- (1) said partially condensed gas is separated thereby to provide a vapor stream and a condensed stream;
- (2) said vapor stream is thereafter divided into gaseous first and second streams;
- (3) said gaseous first stream is cooled to condense substantially all of it and is thereafter expanded to said lower pressure;
- (4) the expanded cooled first stream is then directed in heat exchange relation with a warmer distillation stream which rises from fractionation stages of a distillation column;
- (5) the distillation stream is cooled by said first stream sufficiently to partially condense it and said partially condensed distillation stream is separated thereby to provide said volatile residue gas and a reflux stream, said reflux stream is supplied to said distillation column at a top column feed position;
- (6) the warmed first stream is supplied to said column at a third mid-column feed position; and
- (7) the gaseous second stream is expanded to said lower pressure and is supplied to said distillation column at a third mid-column feed position; and
- (8) said condensed stream is expanded to said lower pressure and is supplied to said distillation column at a third mid-column feed position; and
- (9) the temperatures of said feeds to the column being regulated as hereinbefore described, to maintain column overhead temperature to recover the major portion of propane and heavier hydrocarbon components in said relatively less volatile fraction.

Comp. Specn. 40 pages. Drgs. 7 sheets.

Ind. Cl. : 6B1 XLVII (1)

170483

Int. Cl. : C07C 7/00, 7/04.

**PROCESS FOR THE RECOVERY OF ETHANE AND HEAVIER HYDROCARBONS FROM GASES AND APPARATUS THEREFOR.**

Applicants : ELIOR CORPORATION, MIDLAND, TEXAS, U.S.A.

Inventors : 1. Roy E. Campbell, 2. JOHN D. WILKINSON, 3. HANK M. HUDSON.

Application No. 119/Bom/89, filed May 5, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

28 Claims

A process for the recovery of ethane and heavier hydrocarbons from a gas containing methane,  $C_2$  components and heavier hydrocarbon components comprising the steps of

- (a) cooling said gas under pressure as hereinbefore described, to provide a cooled stream;
- (b) expanding said cooled stream to a lower pressure as hereinbefore described whereby it is further cooled; and
- (c) fractionating said further cooled stream at said lower pressure to recover the major portion of ethane components and heavier hydrocarbon components in said relatively less volatile fraction;

The improvement wherein said gas is cooled sufficiently as aforesaid to partially condense it; and

- (1) said partially condensed gas is separated thereby to provide a vapor stream and a condensed stream;



- (2) said vapor stream is thereafter divided into gaseous first and second streams;
- (3) said gaseous first stream is combined with at least a portion of said condensed stream to form a combined stream and said combined stream is cooled to condense substantially all of it and is hereafter expanded to a pressure below the fractionation pressure;
- (4) the expanded cooled combined stream is then directed in heat exchange relation with a warmer distillation stream which rises from fractionation stages of a distillation column;
- (5) the distillation stream is cooled by said combined stream sufficiently to partially condense it and said partially condensed distillation stream is separated thereby to provide said volatile residue gas and a reflux stream, said reflux stream is supplied to said distillation column at a top column feed position;
- (6) the combined stream is separated thereby to provide a cold vapor stream and a liquid stream, the liquid stream is pumped to said column at a first mid-column feed position;
- (7) the cold vapor stream is compressed and fed to the column at a second mid-column feed position;
- (8) the gaseous second stream is expanded to said fractionation pressure and is supplied to said distillation column at a third mid-column feed position; and
- (9) the temperatures of said feeds to the column being regulated as hereinbefore described to maintain column overhead temperature to recover the kanor portion of ethane and heavier hydrocarbon components in said relatively less volatile fraction.

Comp. Specn. 44 pages. Drgs. 8 sheets.

CLASS : 201 A+D [II (4)]

170484

70 A [LVIII (5)]

Int. Cl. C 02 F—1/00

#### AN IMPROVED ELECTRO-CHLORINATOR SYSTEM FOR CHLORINATION OF WATER.

Applicants : ION EXCHANGE (INDIA) LTD. having its registered office at Piccon House Dr. E. Moses Road, Bombay-400 001, Maharashtra India, an Indian Organisation.

Inventors : (1) Dr. Vinod Chintamani Malshe, (2) Subhas Rajaram Korgaonkar, (3) Mr. Clifford Francis D' Souza and (4) Dr. Vijay Shripad Kamat.

Application No. 135/Bom/1989 Filed on 23-5-1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

#### 3 Claims

An electro-chlorinator system for chlorination of water comprising brine storage tank, an electro-chlorinator, a pump for circulating brine through said chlorinator, inlet means in said brine tank for feeding brine to be chlorinated, outlet means in the brine tank for withdrawing chlorinated brine characterized by the improvement wherein said system comprises at least one brine supply tank ( $T_1$ ) for feeding brine to be chlorinated to the said electro-chlorinator (EC), a first pump means ( $P_1$ ) for withdrawing and pumping brine to said electro-chlorinator from said brine supply tank ( $T_1$ ), a first valve means ( $V_2$ ) provided in association with the said brine supply tank for withdrawal of brine from said tank, a second valve means ( $V_1$ ) in operational association between said electro-chlorinator and the said brine tank ( $T_1$ ), the said first valve means ( $V_2$ ) and the said second valve means ( $V_1$ ) forming a circuit for brine feed from said brine supply tank ( $T_1$ ) through said first valve means ( $V_2$ ) through the pump means ( $P_1$ ) to the electro-chlorinator (EC), and then through the second valve means ( $V_1$ ) for recirculation of chlorinated brine to the inlet of the said brine tank, the said sys-

tem being also provided with a second dosing pump means ( $P_2$ ), connected to the said brine supply tank through an additional valve means ( $V_3$ ) such that said brine tank is put in operation with the said dosing pump ( $P_2$ ) for withdrawing the final chlorinated water from said brine tank, each said valve means being a solenoid operated valve.

(Compl. specn; 11 pages;

Drwg 1 sheet)

CLASS : 32 F 3 (d) IX (1)

170485

55 E 2+E 4 XIX (1)

Int. Cl. : A 61 K—31/34, 31/365

C 12 P—17/02, 17/04.

#### A PROCESS FOR THE PRODUCTION OF A NOVEL ANTIBIOTIC BUTALACTIN FROM A NEW STRAIN OF STREPTOMYCES SPECIES CULTURE NO. HIL Y= 8636923 OR ITS MARIANTS OR MUTANTS.

Applicant : HOECHST INDIA LTD. HOECHST HOUSE NARIMAN POINT, 193 BACKBAY RECLAMATION BOMBAY-400 021, MAHARASHTRA, INDIA AN INDIAN COMPANY.

Inventors : (1) Dr. Christopher Milton Mathew Franco, (2) Dr. Erre Koteswara Vijay Kumar, (3) Dr. Sugata Chatterjee, (4) Dr. Bimal Naresh Ganguli and (5) Dr. Jurger Bhimbach.

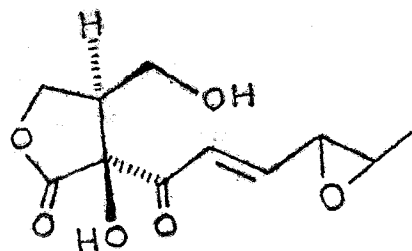
Application No. 139/Bom/1989 Filed on 30-5-1989.

Complete after provisional left on 9-4-1990.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

#### 5 Claims

A process for the production of a novel antibiotic butalactin of the formula shown in Fig. 1.



of the drawings accompanying the provisional specification from a new strain of Streptomyces species culture No. HIL Y-86,36923 or its variants or mutants consulting of cultivating the said strain by fermentation at 18-40°C and pH between 6.0 to 9.0 under aerobic conditions in an aqueous nutrient medium as herein described and isolating the butalactin from the culture broth in a known manner.

Compl. specn.—23 pages;

Drwgs. 5 sheets

Provisional specn.—23 pages;

Drwg. Nil

CLASS : 172 F, B Gr. [XX]

170486

Int. Cl. : D 06 B—5/06.

#### AN APPARATUS FOR PROCESSING A TEXTURED YARN.

Applicant : BARMAG AC, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF FEDERAL REPUBLIC OF GERMANY OF SITZ, REMSCHEID, LEVERKUSER STREASE 65, POSTFACH 110 240, D-5630, REMSCHEID 11, FEDERAL REPUBLIC OF GERMANY.

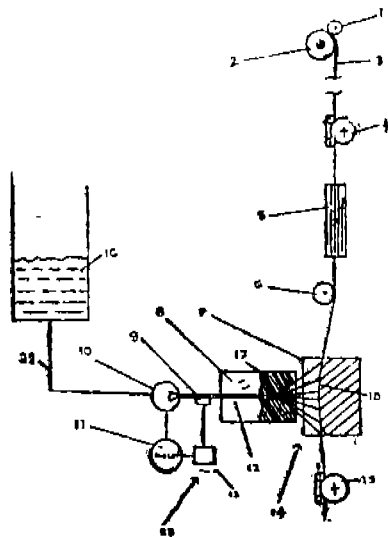
Inventor : EBERHARD KRENZER.

Application No. 147/BOM/1989 FILED on 7-6-1989.

Appropriate Office for opposition proceedings, (Rule 4, Patents Rules 1972), Patent Office Branch, Bombay-13.

#### 6 Claims

An apparatus for processing a synthetic continuous filament yarn comprising known means for advancing a yarn along a path of travel, known guide surface positioned along said path of travel for guiding the yarn in a tensioned condition and for applying liquid to the yarn, and known air jet texturizing means mounted along said path of travel downstream of said guide surface for imparting bulk to the watted advancing yarn, characterized by a nozzle for applying an atomised jet of liquid onto the advancing yarn, a liquid supply, a liquid line extending between said supply and said nozzle, a liquid pump disposed in said line for conveying the liquid under pressure to said nozzle, a pressure sensor operatively connected to said liquid line, and controller means responsive to said sensor for controlling the speed of said pump and thus the pressure in said liquid line delivered to said nozzle, the said nozzle being mounted generally opposed to said guide surface such that the jet of liquid is directed to the yarn advancing across said guide surface.



Comp. Specn. 20 pages,

Drg. 9 sheets

IND. CL. : 1-A, B, C [XLII (1)]  
32 E [IX (1)]

170487

Int. Cl. : C 08 L-33/08, C 08 b-37/00, C 08 F-20/18,

#### THICKENED LIQUID COMPOSITION.

Applicant : HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA INDIA, A COMPANY, INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventor : GEORGE KERR RENNIE.

Application No. 148/Bom/1989, filed on 7-6-1989.

Convention priority Date : 8-6-1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

#### 18 Claims

A thickened liquid composition for use such as herein described which comprises a liquid medium and a synergistic thickening mixture dispersed in the liquid medium, the thickening mixture being present in an amount from 0.01

to 5 wt% with respect to the liquid composition and comprising a gum-type polymer (such as herein described) and a crosslinked acrylic-type polymer (such as herein described) wherein the amount of each of the said polymers is selected according to the respective polymer's sigmoid curve of log (viscosity) vs log (concentration) for the said liquid medium, so as to lie on the sigmoid curve's lower portion having an increasing or substantially constant gradient the liquid composition having a viscosity of at least 20 cPs at a shear rate of 10 sec.—1 greater than that of the liquid medium in the absence of the said thickening mixture.

Compl. specn. 31 pages

Drgs. 4 sheets

IND. CL. : 170 B Gr. [XLIII (4)]

170488

Int. Cl. : C 11 D 3/00, 3/395.

#### LAUNDRY BARS AND PROCESS FOR PREPARING SAME.

Applicants : HINDUSTAN LEVER LTD., HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION BOMBAY-400 020, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventors : (1) WILLIAM JOHN ILEY, (2) ARTHUR GEORGE LEIGH.

Application No. 208/Bom/1989 filed on 25-7-1989.

U.K. Priority date 26-7-1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

#### 8 Claims

A laundry bar comprising detergent active and builder characterized in that the bar is formed from an extruded, shear mixed dough and additionally comprises chloride and/or oxygen containing bleach encapsulated with a coating material which is insoluble in water at pH 7.

Compl. specn. 26 pages

Drg. Nil

IND. CL. : 170 B

170489

Int. Cl. : C 11D, 1/14.

#### BUILT DETERGENT BARS.

Applicants : HINDUSTAN LEVER LTD., 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors : (1) ELIZABETH JACKSON AND (2) PETER JAMES FOWERS.

Application No. 243/Bom/89 filed Aug. 28, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

#### 12 Claims

A built detergent bar, of composition comprising from 10 to 45% by weight of non-soap detergent active such as herein described from 5 to 60% by weight of detergency builder and at least 1% by weight of cellulose having a bulk density less than 0.6 kg/litre.

Compl. specn. 20 pages

Drg. Nil

IND. CL. : 134 B [LII]

170490

Int. Cl. : G 05 G 11/00.

AN IMPROVED CLUTCH ACTUATING DEVICE FOR MANUALLY CLUTCH OPERATED TWO WHEELER MOTOR VEHICLE AND THE TWO WHEELER VEHICLE COMPRISING THE SAME.

**Applicant & Inventor :** KRISHNAKUMAR RAMESHWAR TRIVEDI OF RAMESHWAR MOTORCYCLE WORKSHOP, OPP. PATWARDHAN HIGH SCHOOL, SITABULDI, NAGPUR 440 012, MAHARASHTRA, INDIA.

Application No. 245/Bom/1989 filed on Sept. 5, 1989.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

## 2 Claims

An improved clutch actuating device for manually clutch operated two wheeler motor vehicle comprising in combination a hand clutch lever 1, a main clutch cable 3, connected at one end to the said hand clutch lever 1, through a terminal 2, the other end of the main clutch cable 3 connected to a modified clutch pressing lever 8, through a cable adjuster 7 and a first triunion 9; a brake foot Paddle 4 provided with a first connecting means 5' having two parallel holes 16 and 17 for connecting one end of each of the main brake wire 6 and auxiliary brake/clutch wire 14, the other end of the said main brake wire 6 being connected to a brake shoe cam lever 12 through a brake wire adjuster 10 and a second connecting means 11' having two parallel holes 16 and 17, the other end of the said auxiliary brake/clutch wire 14 passing through a hole 19 provided in the far end of the said modified clutch pressing lever 8' and connected to the said second connecting means 11', a second triunion 13 being provided on the said auxiliary brake/clutch wire 14, touching the said clutch pressing lever 8' from below; an auxiliary brake/clutch wire adjuster 13, provided on a Clamp 20 fitted to the engine body for passing there through the said auxiliary brake/clutch wire 14.

## OPPOSITION PROCEEDINGS

The Opposition entered by RESEARCH DESIGNS AND STANDARD ORGANISATION T to the grant of a Patent on Application No. 167944 made by VOSSLOH WERKE GMBH as notified in the Gazette of India, Part III, Section 2 dated 20th July, 1991 has been treated as abandoned and it is ordered that the application for Patent will proceed to Sealing with some amendments in the specification.

An Opposition has been entered by M/s. V I P INDUSTRIES LIMITED to grant of a patent on application No. 169144 (909/Del/86) dated 14th October, 1986 made by SAMSONITE CORPORATION.

An Opposition has been entered by HINDUSTAN LEVER LTD. on Patent Application No. 169179 (54/Mas/87) made by HENKEL, KOMMANDITGESELLSCHAFT AUF AKTIEN.

An Opposition has been entered by M/s. V I P INDUSTRIES LIMITED to grant of a Patent on application No. 169190 (1093/Del/87) made by SAMSONITE CORPORATION.

An Opposition has been entered by MESSERS HINDUSTAN LEVER LTD., BAMBAY on Patent Application No. 169286 (148/MAS/89) made by MESSERS BEECHAN GROUP PLC., ENGLAND.

## CLAIM UNDER SECTION 20 (1)

The Claim made by PETAINER B.V., under Section 20(1) of the Patent Act, 1970 to proceed the application for Patent No. 168171 (356/Cal/86) in their name has been allowed.

Claim made by Annulus Technical Industries Inc., of P.O. Box No. 7407, 1296, Esprey Drive, Ancaster, Ontario, LGA, Canada, under Section 20(1) of the Patent Act, 1970 to proceed the application for Patent No. 169296 (1018/Mas/86) in their name has been allowed.

The Claim made by Shree Krishnakeshav Laboratories, under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 63/Del/1987 (169172) in their name has been allowed.

## PATENT SEALED

ON 28th FEBRUARY, 1992

156650 161481 161490\* 167992\* 167997 168181\*D 168188  
168189 168229\* 168232 168294\* 168315 168339\* 168377\*  
168399 168426 168435 168450\*D 168460\*D 168494\*D  
168506\* 168537\*D 168539\*D 168575 168578 168581\*P  
168583 168584 168585 168586 168588 168591 168593  
168594 168595 168682

Cal — 10

Del — 10

Mas — 13

Bom — 03.

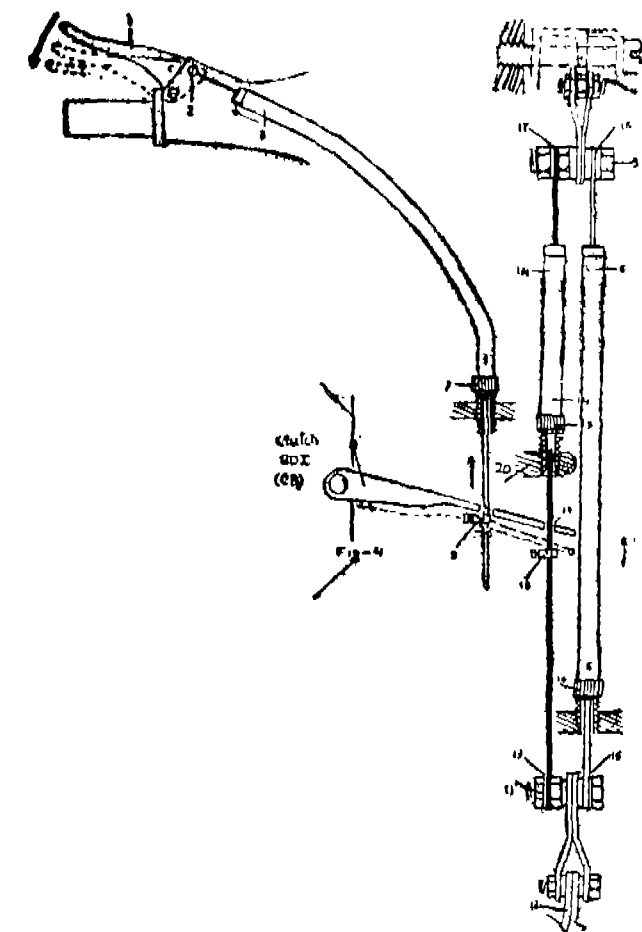
\*Patents shall be deemed to be endorsed with the words "LICENCE OF RIGHT" under section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of Sealing.

D—DRUG PATENTS;

F—FOOD PATENTS.

## AMENDMENT PROCEEDING UNDER SECTION 57

Notice is hereby given that Dow Corning Corporation, of 3901 S Saginaw Road, Midland, Michigan 48640-0994, U.S.A., a U.S. Company have made an application under Section 57 of the Patents Act, 1970, for amendment of application and specification of their application for Patent No. 54/MAS/88



(170186) for a High Performance, High Voltage Electrical Insulator. The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

Notice is hereby given that British Steel Plc, a British Corporation incorporated and existing under the Iron and Steel Act 1967, of 9 Albert Embankment, London SE1 7, SN, England, have made an application under Section 57 of the Patents Act 1970, for amendment of application and specification of their application for Patent No. 522/MAS/87 (170220) for A Tube Joint

The amendments are by way of correction. The application for amendments and proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on the prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said notice.

#### RENEWAL FEES PAID

14370	147483	148678	149016	149098	149100	149126
149178	149734	149874	149884	150090	150120	150458
150461	150619	150834	150967	151048	151238	151256
151272	151622	151668	151774	151847	151887	152282
152320	152346	152347	152520	152600	152756	152818
152965	152965	153127	153129	153214	153473	153617
153814	154208	154318	154457	154458	154492	154528
154572	154681	154776	154777	154872	154873	154874
154892	154915	155165	155372	156172	156236	156280
156287	156492	156582	156624	156750	156752	156864
156989	157205	157450	157529	157650	157704	157823
157859	157899	158212	158617	158642	158836	159088
159221	159394	159485	159486	159525	159528	159535
159536	159879	159966	160495	160611	160636	160930
160970	161630	161690	161816	161913	161970	162412
162518	162615	162684	162699	163035	163071	163205
163298	163302	163477	163490	163498	163539	163749
163768	163775	163807	163860	163930	163934	163984
164029	164113	164125	164158	164159	164191	164233
164244	164246	164283	164296	164299	164321	164494
164612	164619	164640	164696	164815	164880	164897
164931	164937	164996	165093	165325	165358	165393
165536	165567	165866	165887	166042	166155	166156
166157	166159	166268	166338	166529	166573	166576
166595	166599	166624	166645	166693	166815	166836
166837	166838	166863	166877	166926	166953	166955
166956	166996	167048	167084	167087	167088	167089
167255	167460	167535	167571	167578	167746	167747
167749	167772	167797	167804	167805	167811	167813
168152	168283	168287	168498	168499	168501	168502
168503	168504	168505	168541	168542	168546	168547

#### CESSATION OF PATENTS

155509	155512	155516	155517	155519	155522	155523
155524	155526	155529	155532	155534	155536	155537
155540	155541	155542	155548	155549	155552	155553
155554	155555	155556	155557	155558	155562	155563
155565	155566	155572	155574	155576	155581	155583

155584	155585	155587	155588	155590	155596	155599
155600	155601	155602	155603	155611	155613	155614
155616	155620	155626	155628	155637	155643	155644
155645	155647	155655	155656	155658	155659	155661
155663	155665	155666	155671	155672	155679	155682
155683	155688	155690	155693	155695	155699	155701
155702	155705	155706	155710	155712	155713	155717
155719	155726	155729	155731	155735	155736	155740
155741	155743	155748	155752	155759	155762	155764
155769	155770	155774	155776	155777	155778	155780
155781	155782	155784	155788	155789	155791	155792

#### RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151040 granted to Chief Controller, Research & Development for an invention relating to "a process for producing a celluloid coated rayon/Cambic sheet."

The Patent ceased on the 14-2-90 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151379 granted to Niku Purnachandra for an invention relating to "a process for casting of metallic hollow ingots, billets, rods and slates."

The Patent ceased on the 28-1-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151391 granted to Niku Purnachandra for an invention relating to "an improved type of refining process for ferrous and non-ferrous metals and alloys."

The Patent ceased on the 28-1-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 151518 granted to Niku Purnachandra for an invention relating to "continuous electric steelmaking process from steel scrap and sponge iron."

The Patent ceased on the 28-1-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 160058 granted to Birinder Bhuller for an invention relating to "a Carbon Overwrapping machine".

The Patent ceased on the 18-4-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 16066 granted to Synthetics and Chemical Ltd. for an invention relating to "a process for the preparation of polymeric mixtures".

The Patent ceased on the 7-2-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 165329 granted to Trutzschler GmbH & Co. Kg for an invention relating to "apparatus for taking off flocks from fibre bales".

The Patent ceased on the 10-4-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 165364 granted to Dr. Mihir Sen for an invention relating to "a process for improving the physical and/or structural properties of titanium and titanium based alloy products.

The Patent ceased on the 11-3-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 165537 granted to Trutzschler GmbH & Co. KG. for an invention relating to "an improved carding machine".

The Patent ceased on the 27-4-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 14-3-92.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta-700 020 on or before the 28th May, 1992 under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application for restoration of Patent No. 165704 dated the 25th November 1985 made by Edward Koppelman on the 26th April 1991 and notified in the Gazette of India Part III, Section 2 dated the 9th November 91 has been allowed and the said Patent restored.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 165713 granted to Muthu Rangaramanujam Srinivasan, Sridharan Pattabiraman, Sridharan Ranganayaki & Rangaramanujam Jayalakshmi for an invention relating to "a rotor for an alternator."

The Patent ceased on the 5-5-91 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 14-3-92.

Any interest person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate, with the Controller of Patents, The Patent Office, Nizam Palace, 2nd M.S.O. Building, 5th, 6th and 7th floor, 234/4, Acharya Jagadish Chandra Bose Road, Calcutta 700 020 on or before the 28th May, 1992. Under Rule 69 of the Patents Rules 1972. A written statement, in triplicate, setting out the nature of the opponents interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### CANCELLATION PROCEEDINGS (SECTION 51A)

An application filed by Earl Bihari Pvt. Ltd. for cancellation of the registration of registered of Regd. Design No. 161978 in class-3 in the name R. A. Industries on 22-3-1991.

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.  
(DESIGN)

Assignments, licences or other transaction affecting the interest of the original proprietors have been registered in the following cases. The number of each case is followed by the names of the applicants for registration :

*Name & Sl. No.*

KHAITAN (INDIA) LIMITED, 46C, J. L. NEHRU ROAD, CALCUTTA-700071, WEST BENGAL, INDIA, 150080, 150368, 150432, 152977, 152978, 153255, 154454, 155762, 155763, 155764 & 155765.

Name Index of application for patents in respect of Patent Office Calcutta & its branches for the month of November 1991.

(Nos. 823/Cal/91—890/Cal/91; 332/Bom/91—354/Bom/91; 824/Mas/91—884/Mas/91 and 1059/Del/91—1176/Del/91).

*Name & Application No.*

CALCUTTA : (823/Cal/91—890/Cal/91)

## —A—

A.E. Bishop & Associates Pty. Ltd.—871/Cal/91.  
American Home Products Corporation.—880/Cal/91.

## —B—

B.A.S.F. Corporation.—889/Cal/91.  
Babcock & Wilcox Co. The.—824/Cal/91.  
Biswas, J. N.—874/Cal/91.  
Bhadra, B.C. Dr.—851/Cal/91.  
Black Burn & Co. Pvt. Ltd.—849/Cal/91.  
Boots, G.A.M.—844/Cal/91.  
Brown, N.D.—834/Cal/91.

## —C—

C & R Holdings Pvt. Ltd.—853/Cal/91.  
Concept Analysis Corporation.—848/Cal/91.

## —D—

De Nora Permelec S.p.A.—833/Cal/91.  
Doctor, B.P.—834/Cal/91.  
Dutt, K. Smt.—826/Cal/91.

## —E—

E.I. Du Pont de Nemours & Co.—842/Cal/91, 845/Cal/91.  
Eaton Corporation.—831/Cal/91.  
Envirex Inc.—870/Cal/91.

## —F—

Filial Tsentralnogo Aerogidrodinamicheskogo Instituta Iment Professora Ne Zhukovskogo—866/Cal/91.  
Franz Plasser Bahnbaumaschinen-Industriegesellschaft M.B.H. 827 Cal/91, 828/Cal/91.

## —G—

General Electric Co.—878/Cal/91.  
Ghosh, K.—886/Cal/91.  
Great Lakes Chemical Corporation.—855/Cal/91.

## —H—

Himont Incorporated.—862/Cal/91, 863/Cal/91.  
Hitachi Ltd.—876/Cal/91.

Hoechst Aktiengesellschaft—823/Cal/91, 830/Cal/91, 832/Cal/91, 875/Cal/91.

Hollandse Signaal apparaten B.V.—877/Cal/91.

Huhtamaki Oy.—839/Cal/91, 840/Cal/91, 841/Cal/91.

## —I—

Isover Saint-Gobain.—843/Cal/91.

## —J—

Jha, V.—887/Cal/91, 888/Cal/91.

## —K—

Krone AG.—858/Cal/91.

## —L—

Lubrizol Corporation. The.—890/Cal/91.

## —M—

Maity, J. Sri.—882/Cal/91.  
Marasco, J.M.—834/Cal/91.  
McCabe, F.J.—829/Cal/91.  
Microcide, Inc.—867/Cal/91.  
Mitsubishi Materials Corporation.—859/Cal/91, 860/Cal/91.

## —N—

N.V. Philips' Gloeilampen fabrieken.—869/Cal/91.  
Nash Engineering Co. The.—864/Cal/91.  
Nico-Pyrotechnik Hanns-Juergen Diederichs GMBH. & Co. KG.—825/Cal/91.

## —O—

Oliver Rubber Co.—854/Cal/91.  
Ozaki, Y.—847/Cal/91.

## —P—

Puma AG Rudolf Dassler Sport.—835/Cal/91.

## —R—

Richter Gedeon Vegyeszeti Gyar Rt.—856/Cal/91.  
Roy, S.—846/Cal/91, 865/Cal/91.  
Roy, S.K.—886/Cal/91.

## —S—

Samsung Electronics Co. Ltd.—832/Cal/91, 836/Cal/91, 881/Cal/91.  
Sen, P.K.—850/Cal/91.  
Siemens AG.—857/Cal/91.  
Stone & Webster Engineering Corporation.—879/Cal/91.  
Sumitomo Metal Industries—868/Cal/91.  
Sumsung Electron Devices Co. Ltd.—861/Cal/91, 885/Cal/91.  
Swann, R.F.—837/Cal/91.

## —T—

Texaco Development Corporation.—873/Cal/91.  
Thomson Consumer Electronics Inc.—883/Cal/91, 884/Cal/91.

## —U—

Unilever PLC.—872/Cal/91.

**—V—**

Vallouree Industries—868/Cal/91.  
Varadachari, C.—886/Cal/91.  
Vsesojuzny Nauchno-Issledovatel'sky I Proektno-Konstruktor-sky Institut Po Oborudovaniju Dlya Konditsionirovaniya Vozdukha I Ventilyatsii—866/Cal/91.

**—W—**

Westinghouse Electric Corporation.—838/Cal/91.

**BOMBAY (332/Bom/91—354/Bom/91)**

Name & Application No.

**—B—**

Balasubramanian & Bhaskar.—352/Bom/91.  
Bhatia, K.B.—349/Bom/91, 354/Bom/91.  
Bhide, P.G.—338/Bom/91.  
Bhagate, R.—334/Bom/91, 351/Bom/91.  
Big Ben Engg. Works—335/Bom/91.

**—D—**

Darl Cosultants Pvt. Ltd.—348/Bom/91.

**—G—**

Green, K.R.—353/Bom/91.

**—H—**

Hada, R.S.—336/Bom/91.  
Hindustan Lever Ltd.—345/Bom/91, 346/Bom/91, 347/91.  
Name & Application No.

**—M—**

Mansuri, M.I.—342/Bom/91.  
Mipak Plastics Pvt. Ltd.—344/Bom/91.

**—R—**

Ramchandra, M.U.—340/Bom/91.

**—S—**

Sinter Plast Containers.—332/Bom/91, 333/Bom/91.  
Sridhararao, U.—341/Bom/91.

**—T—**

Tase, S.D.—339/Bom/91.  
Tessier, J.M.—350/Bom/91.  
Thermase Ltd.—337/Bom/91, 343/Bom/91.

**MADRAS : (824/Mas/91—884/Mas/91)**

Name & Application No.

**—A—**

Affymax Technologies N.V.—881/Mas/91.  
Akebono Brake Industry Co. Ltd.—864/Mas/91.  
Akebono Research & Development Centre Ltd.—864/Mas/91.  
Aluminium Pectiney.—870/Mas/91.  
Asca Brown Boveri Ltd.—845/Mas/91.  
Asher, A.—829/Mas/91.  
Astra Research Centre India.—874/Mas/91, 883/Mas/91.  
Atochem—869/Mas/91.

**—B—**

Barnea, E. R.—882/Mas/91.  
Boots Co. P.L.C. The.—873/Mas/91.  
Braceo Industria Chimica S.P.A.—844/Mas/91.  
British Gas P.L.C.—834/Mas/91.

**—C—**

C P C International Inc.—884/Mas/91.  
Colivier Pty. Ltd.—849/Mas/91.

**—E—**

Elgibi Engineering Works Ltd.—854/Mas/91, 860/Mas/91.

**—F—**

F.L. Smidth & Co.—835/Mas/91.  
Foseco International Ltd.—831/Mas/91.

**—G—**

Glaos Group Ltd.—871/Mas/91, 872/Mas/91.

**—H—**

Heinrich Kopp GmbH.—840/Mas/91.  
Hybo Science, Inc.—862/Mas/91, 863/Mas/91.

**—I—**

Institut Francais Du Petrole—832/Mas/91.  
Inventio AG.—851/Mas/91.

**—K—**

Kulasinghe, A.N.S.—836/Mas/91.  
Kurimoto Ltd.—850/Mas/91.

**—L—**

Lucas Industries Public Ltd. Co.—828/Mas/91.

**—M—**

M.J. Joseph alias appachan—826/Mas/91, 848/Mas/91.  
Mahasananda, S.—824/Mas/91, 837/Mas/91.  
Mefina S.A.—866/Mas/91, 867/Mas/91, 868/Mas/91.  
Merlin Gerin—846/Mas/91.  
Micronisers Pty. Ltd.—876/Mas/91.  
Moultrie, I.A.—829/Mas/91.  
Munn, E.A.—853/Mas/91.

**—N—**

Norton Co.—852/Mas/91.

**—P—**

Philip Morris Products Inc.—847/Mas/91

**—R—**

Rosemount Inc.—843/Mas/91.

**—S—**

S M S Schloemann Siemag Ag.—877/Mas/91.  
Sabapathy, N.—880/Mas/91.  
Sahadevan, K.R.—865/Mas/91.  
Sambamurthy, P.K.—827/Mas/91.  
Sandoz Ltd.—879/Mas/91.  
Snamprogetti S.p.A.—825/Mas/91.  
Savio Spa.—861/Mas/91.

## Name &amp; Application No.

Shet, G.V.—875/Mas/91.

Smith, T.S.—853/Mas/91.

Srinivasan, R.—842/Mas. 91.

Stork Ketel B.V.—841Mas/91.

## —U—

Unilever Australia Ltd.—876/Mas/91.

Union Carbide Chemicals &amp; Plastics Inc.—838/Mas/91, 839/Mas/91.

Urea Casale S.A.—830/Mas/91.

## —V—

Vaithianathan, A.—833/Mas/91.

Vittal Mallya Scientific Research Foundation.—878/Mas/91.

## —Y—

Yogi, S.P.—824/Mas 91, 837/Mas/91.

## DELHI : (1059/Del/91—1176/Del/91)

## —A—

Aerospatiale Societe Nationale Industrielle—1162/Del. 91.

Aktiebolaget Astra.—1154/Del/91.

Arbed S.A.—1176/Del/91.

## —B—

BP Chemicals Ltd.—1121/Del/91, 1129/Del/91.

Bakery Equipment &amp; Service Co.—1135/Del/91.

Bharat Heavy Electricals Ltd.—1156/Del/91.

## —C—

Carold Pichette—1080/Del/91.

Castollin S.A.—1062/Del/91, 1063/Del/91.

Coflexip—1134/Del/91.

Colgate-Palmolive Co.—1169/Del/91, 1170/Del/91, 1171/Del/91.

Concentric Pumps Ltd.—1068/Del/91.

Coulter Electronics, Inc.—1105/Del/91.

Council of Scientific & Industrial Research.—1109/Del/91, 1110/Del/91, 1111/Del/91, 1112/Del/91, 1113/Del/91, 1114/Del/91, 1115/Del/91, 1116/Del/91, 1117/Del/91, 1118/Del/91, 1119/Del/91, 1137/Del/91, 1138/Del/91, 1139/Del/91, 1140/Del/91, 1141/Del/91, 1142/Del/91, 1143/Del/91, 1157/Del/91, 1158/Del/91, 1159/Del/91

## —E—

E.R. Squibb &amp; Sons, Inc.—1161/Del/91.

Eastman Kodak Co.—1163/Del/91.

Exxon Chemical Patents, Inc.—1086/Del/91.

## —G—

G P T Ltd.—1088/Del/91, 1127/Del/91.

Geen Alsthom S.A.—1153/Del/91.

## —H—

Hermann Berstorff Maschinenbau GmbH.—1175/Del/91.

Hydro Quebec—1120/Del/91, 1144/Del/91.

## —I—

Interiego A.G.—1172/Del/91, 1173/Del/91, 1174/Del/91.

## Name &amp; Application No.

## —K—

Khanna, P.—1060/Del/91, 1061/Del/91,

Krishnankutty, K.—1099/Del/91.

## —L—

L'Air Liquide, Societe Anonyme Pour L' Etude Et L' Exploitation Des Procedes Georges Claude.—1164/Del/91.

Linx Printing Technologies Ltd.—1123/Del/91.

Lubrizol Corporation. The—1064/Del/91.

Lycom A. S.—1167/Del/Del/91.

## —M—

Madhok Construction Co. (Pvt.) Ltd.—1136/Del/91.

Mallik, K.N.—1100/Del/91.

Mangla, J.C.—1152/Del/91.

Martin, J.H.—1067/Del/91.

Medice Chem-Pharm-Fabrik Putter GmbH. &amp; Co. KG.—1102/Del/91, 1103/Del/91, 1104/Del/91.

Monda Chicken Kogyo Kabushiki Kaisha—1155/Del/91.

Motorola Inc.—1078/Del/91, 1131/Del/91.

## —N—

NKT A/S.—1167/Del/91.

Nabha, F.S.—1084/Del/91.

Nagar, R.—1125/Del/91.

## —O—

Orbital Engine Co. (Australia) Pty. Ltd.—1101/Del/91.

Oroupe Fidomi—1145/Del/91.

## —P—

Pall Corporation.—1124/Del/91.

Portals Ltd.—1130/Del/91.

Procter &amp; Gamble Co. The—1065/Del/91, 1079/Del/91, 1083/Del/91, 1089/Del/91, 1098/Del/91, 1106/Del/91, 1107/Del/91.

## —R—

Rathor, B.C.—1132/Del/91, 1133/Del/91.

Richardson-Vicks, Inc.—1146/Del/91.

Richter Gedeon Vegyeszeti Gyar Rt.—1077/Del/91.

Rohm &amp; Haas Co.—1071/Del/91, 1081/Del/91, 1160/Del/91.

## —S—

Safir, Y.—1166/Del/91.

Samsonite Corporation—1165/Del/91.

Sethi, S.—1076/Del/91.

Shriram Institute for Industrial Research.—1149/Del/91, 1150/Del/91, 1151/Del/91.

Siddiqui, E.U.—1148/Del/91.

Sidwal Refrigeration Industries Pvt. Ltd.—1059/Del/91.

Singh, D.—1172/Del/91.

Singh, G.—1085/Del/91.

Societe Anonyme Dite : Stein Industrie—1128/Del/91.

Societe De Conseils De Recherches Et D' Applications Scientifiques (S.C.R.A.S.)—1168/Del/91.

Societe Electromecanique Du Nivernais Seln.—1070/Del/91.

Standard Oil Co. The.—1122/Del/91, 1174/Del/91.

Stein Industrie.—1087/Del/91.



## Name &amp; Application No.

—T—

Torrington Co. The—1090/Del 91.

Torotrak (Development) Ltd.—1126/Del/91.

Toyo Engineering Corporation.—1075/Del 91.

Tyagi N.—1066/Del/91.

—U—

UOP.—1082/Del/91, 1097/Del/91.

—V—

Verma, R.C.—1173/Del 91.

Vishwanath, E.—1069/Del/91.

—W—

Westinghouse Air Brake Co.—1091/Del/91, 1092/Del/91,  
1093/Del/91, 1094/Del/91, 1095/Del/91, 1096/Del/91.  
Whirlpool Corporation.—1147/Del/91.

—Z—

Zuko Engineers—1108/Del/91.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration of the design included in the entry.

Class. 1. No. 163345. Sivanesan Company, Waikiki Complex, 289, Purasawalkam High Road, Madras-600007, Tamil Nadu, India, Indian Partnership Firm. "Frying Pan". June 25, 1991.

Class. 1. No. 163540. Asha Handicrafts, 84, Marol Co-operative Industrial Estate, Mathuradas, Vasanji Road, Marol, Andheri (E), Bombay-59, Maharashtra, India, Indian Partnership Firm. "Coffee Keg". August 21, 1991.

Class. 1. No. 163595. Kishan Lal Malhotra, Preet Nagar, Sodral Road, Jalundhar, Punjab, India, Indian National. "Poori Belna". September 16, 1991.

Class. 1. No. 163649. Ashraf Yusuf Palsaniya trading as Palsaniya Engineering Works of Shop No. 2, 148, Imamwada Road, Bombay-400009, Maharashtra, India. "Carburettor". October 7, 1991.

Class. 1. No. 163671. Multifrig Marketing Co. Pvt. Ltd., 1/12, Kirti Nagar (WHS), New Timber Market, New Delhi-110015, India, Indian Pvt. Co. "Bottle". October 21, 1991.

Class. 1. No. 163803. Sree Chitra Tirunal Institute for Medical Sciences & Technology, Biomedical Technology Wing, Satelmond Palace, Trivandrum-695012, Madras, India, Indian Company "Carbon Dioxide Incubation Chamber". November 20, 1991.

Class. 1. No. 163911. Peico Electronics and Electricals Ltd., of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India, an Indian Company. "Loudspeaker". December 13, 1991.

Class. 1. No. 164042. Raju Joseph of J.J.M. Tyre Equipments, P.B. No. 7119, Periyar Nagar, Coimbatore-641045, T. N., India, Indian National. "Burning chamber for use in re-treading of tyres". January 27, 1992.

Class 3. No. 163344. Sivanesan Company Waikiki Complex, 289, Purasawalkam High Road, Madras-600007, T. N., India, Indian Partnership Firm. "Handle". June 25, 1991.

Class 3. No. 163456. Dr. Moshe Cohen and Dov Eyal Israel Nationals of No. 10, Abarbncl Street, Rishon Ze, Zion, Israel. "Holder". July 29, 1991.

Class 3. No. 163525. Freemans Measures Ltd., Indian Company, Perozapore Road, Ludhiana-141001, Punjab, India. "Knife". August 16, 1991.

Class 3. No. 163527. Freemans Measures Ltd., Indian Company, Perozapore Road, Ludhiana-141001, Punjab, India. "Measuring tape-cum-level indicator". August 16, 1991.

Class 3. No. 163615. Sunny Sales Corporation of 22/24, Dhun Mention, Avantikabhai Gokhale Road, Bombay-4, Maharashtra, India, Indian Partnership Firm. "Container". September 25, 1991.

Class 3. No. 163625. Base and Box Engineering Company, Indian Proprietary Concern of 4459, Arya Pura, Roshanara Road, Delhi-110007, India. "Scooter Bucket". September 17, 1991.

Class 3. No. 163667. Ashish Enterprises, Irani Building, Ground floor, 303, Cawasji Street, Bombay-400002, Maharashtra, India, Indian Partnership Firm. "Toilet Stand". October 15, 1991.

Class 3. No. 163703. Richie Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110001, India, Indian Sole Proprietorship Concern. "Tennis Racket Cover". October 24, 1991.

Class 3. No. 163705. Richie Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110001, India, Indian Sole Proprietorship Concern. "File Cover". October 24, 1991.

Class 3. No. 163711. Dr. Jayant Pujari, Indian National, 10, Rajendra Ratna, Mahesh Nagar, S. V. Road, Goregaon (West), Bombay-400062, Maharashtra, India. "Tooth Brush". October 29, 1991.

Class 3. No. 163726. Samsonite Corporation, of 11200, East 45th Avenue, Denver, Colorado 80239, U.S.A. "Luggage Case". Priority date May 20, 1991 (UK).

Class 3. Nos. 163740 to 163743. Interlego A. G., a Swiss Company of Sihlbruggstrasse 3, CH-6340, Baar, Switzerland. "Toy". November 6, 1991.

Class 3. No. 163777. Media Video Ltd., Indian Company, B-86/1-Okhla Industrial Area, Phase-II, New Delhi-110020, India. "Cordless remote control for T. V. Game". November 13, 1991.

Class 3. No. 163778. Media Video Ltd., Indian Company, B-86/1-Okhla Industrial Area, Phase-II, New Delhi-110020, India. "T.V. Game". November 13, 1991.

Class 3. No. 163779. Media Video Ltd., Indian Company, B-86/1-Okhla Industrial Area, Phase-II, New Delhi-110020, India. "Toy Gun". November 13, 1991.

Class 3. 163797. The Bharat Vijay Mills Ltd. of Kalol (North Gujarat), Pin : 382721, Gujarat, India. "Kitchen Stand". November 19, 1991.

Class 3. No. 163905. Creeks, a French Body Corporation of 37-39, Rue Pleyel-93200, Saint Denis, France. "Ink Pen". December 10, 1991.

Class 3. No. 164034. Smt. Santosh Kaul trading as Ambica Chemicals, 22, Old Vijay Nagar Colony, Agra (UP), India, Indian National. "Bottle". January 22, 1992.

Class 4. No. 163706. McDowell & Co. Ltd., Indian Company of McDowell House, 3 Second Line Beach, P.O. Box 36, Madras-600001, T.N., India. "Bottle". October 25, 1991.

Class 5. No. 163488. Hawkins Coochers Ltd. of F-101, Maker Towers, Cuffe Parade, Bombay-400005, Maharashtra, India, an Indian Company. "Carton". August 2, 1991.

Class 5. No. 163587. Sara Lee Corporation of 470 Hanes Mill Road, Winston-Salem, North Carolina 27105, U.S.A. "Package". September 10, 1991.

Class 5. Nos. 163672 to 163674. Peekay Offset Printers, J/4-17 B, Rajouri Garden, Bhagwati Niwas, New Delhi-110027, India, Indian Proprietorship Concern. "Playing Card". October 21, 1991.

Class 10. No. 163589. Sico Vinyl Pvt. Ltd. of Swstik Compound, Chincholi Bunder Road, Malad (W), Bombay-400064, Maharashtra, India, Indian Company. "Sole of shoe". September 11, 1991.

Class 10. 163590. Sico Vinyl Pvt. Ltd. of Swstik Compound, Chincholi Bunder Road, Malad (W), Bombay-400064, Maharashtra, India, Indian Company. "Foot Wear". September 11, 1991.

Class 12. No. 163696. Hindustan Lever Ltd., of 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India. "Soap". October 24, 1991.

Class 12. No. 163701. Richie Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110001, India, Indian Sole Proprietorship Concern. "Toy". October 24, 1991.

Class 12. No. 163702. Richie Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110001, India, Indian Sole Proprietorship Concern. "Toy made of fabric". October 24, 1991.

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Class 12. No. 163715. Cookies (India) Pvt. Ltd., of Chiyaram, Trichur-680026, Kerala, India, an Indian Company. "Biscuit", October 29, 1991.

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